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COMPETITION POWER

Your Guide to Government Jobs & All other Competitive Exams

What's There

G.K. Hindu Review: September
Current Affairs Zinger: August
HANDY NOTES & QUIZZES :

- Concept of Trains
- Vocabulary Corner
- Prism, Pyramid & Tetrahedron
- Data Flow Diagram
- Simple Future Tense
- Computer Terminologies
- RBI

- Mughals Part - 1
- GA Tricky Notes
- National Parks
- Twisted Ones

PRACTICE SETS:

- SSC CGL TIER-I 2016 Memory Based
- SSC CGL TIER-II Quant
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- IBPS PO PRELIMS
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- IBPS RRB PO PRE - Reasoning



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- ⇒ The Visit of Modi Ji Vietnam
- ⇒ Paralympics 2016 Concluded in Brazil
- ⇒ Stan Wawrinka won his first US Open Title
- ⇒ Emmy Awards for the year 2016 announced
- ⇒ Cabinet approves amendments in the FDI Policy
- ⇒ Weather Satellite, INSAT-3DR launched by ISRO
- ⇒ 11th G-20 Summit 2016 Concluded in Hangzhou, China

Content Partners



From the Editor's Desk

Dear Readers,

Bankers Adda in collaboration with Career Power brings to you **Competition Power (November Edition)**. The reason why this collaboration is so important and a landmark event as both BA and Career Power has had a long and extremely successful association with students appearing for competitive exams.

This magazine includes various initiatives that cover various aspects of Banking and SSC exams in an exhaustive manner.

Keeping in mind the upcoming exams, we have covered Current Affairs for not only the month of **September** but also for the month of **August** under the name "**Current Affairs Zinger**". To make learning easy for the students we have also introduced another initiative by the name "**NEWS MAKER OF THE MONTH**" which covers all the important people, appointments, awards, etc that have made news.

Having covered the GK and CA portion in an exhaustive manner, we have also given equal importance and focus to all the other aspects of the exams, be it Covering each aspect of the various subjects (like reasoning, english, quant, computers) right from building the student's concepts to helping him practice a few topics.or be it Interview Preparation or Guidance and boosting the confidence of students. We Have It All Covered!!!

Along with this we have also included **Mock Papers** on **IBPS PO MAINS PRACTICE SET, SSC CGL TIER 1 MEMORY BASED MOCK, IBPS PO PRELIMS PRACTICE SET, IBPS CLERK PRELIMS MOCK PAPERS, IBPS RRB PO PRELIMS REASONING PRACTICE SET AND SSC CGL TIER 2 QUANT PRACTICE SET 2016 following the respective exam pattern** for practice for our readers, so that they can increase their speed and accuracy. This edition of Magazine also includes a new series named "**Twisted Ones**" which will have questions with higher difficulty level.

Basically this magazine is a one stop place for all those preparing for government sector competitive exams. Within few months of its launch, it has become quite popular among the students, who love to refer to it for their exams.

We believe that each and every student has the hidden potential to reach the unattainable heights, and it is our responsibility to provide them with a platform that hones their skills enabling them to overcome each and every challenge that comes their way while appearing for these exams.

Having said this I would like to give special thanks to the specialized mentors of Bankers Adda and Career Power team for providing us with the needed support and making this magazine a success.

Good Luck And God Bless

Team Competition Power !!

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Chief Editor: Gopal Anand

Team: Prashant, Saurabh, Meena, Aniket, Neeraj,
Veer, Vandana, Ashish, Swati & Team

Relationship Officer: Rajat Mehra

Contact No: 8750044896

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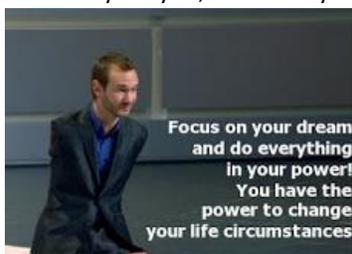
Email: info@careerpower.in

Website: www.bankersadda.com &

www.careerpower.in

Motivational : IF THEY CAN, THEN WHY CAN'T YOU???

The recent results might have left many of you, some of you might also have given up the hopes of getting success in life. If so, then this article is definitely going to help you in getting over this low and continue the journey towards success with zeal. If not, then again this article is going to help you keep the negativity spread by some **DOOMSAYERS** at bay. Obviously, success is not a piece of cake, you'll have to work hard, push yourself hard in order to move an extra inch ahead. Such mind numbing toil it is! So, are you competent enough to go through this arduous process of transmutation? Rather than answering this question with some rhetorical phrases and motivational quotes, I would like to introduce some of those, who have successfully answered this complex question with their firm actions.



The usage of the cumbersome adjectives which I have used above might have made you think that, in order to go through this so called process of 'transmutation' (transformation),



you have a mountain to climb. But friends, there is actually a brave heart, who climbed the 'highest' mountain even after losing one of her leg in an accident. After this tragic incident, she had two choices, one, to

sit at home and curse life, destiny and god for being rude to her and second, to get over it and set an example for generations to come. She opted for the second one and today, she is the living example of courage, passion and dedication. Women empowerment indeed!!!! And Friends, that's Arunima Sinha, the first woman amputee to climb Mount Everest, for you.

The childhood of many of us is marked with the Sunday episodes of Ramanand Sagar's Ramayana and the melodious jingles

of **Ravindra Jain** complement those memories very beautifully. Born visually impaired, Jain started singing at a very young age. He challenged his disability, won over it and became one of the most notable music directors of his time.



Ira Singhal is a name which has become a guiding light for every aspirant of Civil Services. But friends, getting selection in IAS was not a bed of roses for her. Ms. Singhal in the year 2010 had also cleared Civil Services examination but due to her so called 'disability', she was not able to get a posting. After being unable to get a posting the first time, she fought and won her case in the Central Administrative Service and became constant source of inspiration for all of us.



Friends, I know that starting from point zero is quite tormenting. But, the story of **Malathi Krishnamurthy Holla** might encourage you. Holla was paralyzed completely at the tender age of one. After a regular shock treatment for two years, her upper body got strength but the lower body remained weak. Irrespective of



all the anomalies that came in her path, she decided to live life in the best possible way and chose to excel in sports. She worked hard and

won gold in 200m shot put, discus and Javelin throw at the 1989 World Masters games in Denmark. She has over 300 medals in her kitty and is also a recipient of Arjuna Award and Padma Shri.

Friends you might have noticed that the points that are omnipresent in all these success stories of true achievers are 'Perseverance', 'determination' and 'Hard work'. Some of them fought against the system, some had to win over the social barriers and some had to conquer their own fear and physical impairment in order to achieve success nevertheless, your fight is still against yourself in furtherance of becoming a better you. Keep it in your mind that challenge is nothing but an opportunity to boost your skills and come out as a souped up person. So, are you ready to change yourself for good? Are you ready to give all it takes to be successful? Are you prepared to be brave enough to accept your flaws and to work towards ameliorating them? If yes, then congratulations! The answer of the question asked in the beginning of this article is also in positive. So, keep working hard and pen down your own success story to inspire the generations to come.

All The Best!!

NEWS MAKERS OF THE MONTH – SEPTEMBER 2016

Cabinet approves amendments in the FDI Policy



Union Cabinet has given its ex-post-facto approval for the FDI policy amendments announced by the Government. This will liberalise and simplify the FDI policy so as to provide ease of doing business in the country.

The new limits for the FDI are as follows:

- FDI in the defence sector is now permitted up to 100%, while earlier 49% FDI was permitted under the automatic route.
- For single-brand retail trading, norms of local sourcing have been relaxed for up to three years.
- FDI ceiling in sectors like teleports, Direct to Home (DTH), cable networks, mobile TV and Headend-in-the-Sky Broadcasting Service (HITS) has been increased to 100%.
- For the pharmaceutical sector, new liberalised norms allow 74% FDI under the automatic route for brownfield pharmaceuticals, while FDI beyond 74 per cent would be permitted through the government approval route.
- For the private security agencies, FDI up to 49% is now permitted under the automatic route, and beyond that and up to 74% by way of government approval.
- Food: It has now been provided that 100% FDI under automatic route for trading.
- Civil Aviation Sector: The earlier FDI policy on Airports permitted 100% FDI under automatic route in Greenfield Projects and 74% FDI in Brownfield Projects under the automatic route. FDI beyond 74% for Brownfield Projects is under government route.

The Visit of Modi Ji Vietnam

Prime Minister Narendra Modi signed 12 agreements with Vietnam after meeting his Vietnamese counterpart Nguyen Xuan Phuc. The leaders of the two countries held delegation level talks. PM Modi also announced a new line of credit of \$500 million for Vietnam to facilitate deeper defence cooperation. Along with setting a bilateral trade target of \$15 billion by 2020, the Prime Minister also sought facilitation of ongoing Indian

projects and investments in Vietnam. India has also granted \$5 million to set up a software park in the country.



The 12 MoU's signed ranging from health to defence to space. India's L&T will build offshore high speed patrol boats for Vietnamese Coast Guards, while an agreement was signed on programme of cooperation in UN peacekeeping matters.

Indian Navy and Vietnam Navy will cooperate in sharing of white shipping information. The pacts included agreement on exploration and uses of outerspace for peaceful purposes, agreement on avoidance of double taxation, health cooperation, IT cooperation, cyber security and agreement on contract and design, building of boat in India, equipment supply and technology transfer.

In addition, MoU between Vietnamese Academy of Social Science and Indian Council of World Affairs, MoU between BIS and STAMEQ for mutual recognition of standards, agreement on setting up of sustainable IT Infra for advanced IT training and protocol between Vietnam and India on celebrating 2017 as 'The Year Of Friendship' were also signed.

Being the fourth Indian Prime Minister to visit Vietnam in over five decades, PM Modi was greeted with a ceremonial welcome in front of the Presidential palace in Vietnam's capital Hanoi. Vietnamese President Tran Dai Quant welcomed him.

PM Modi also paid homage to national heroes and martyrs at their monuments along with laying wreath at the war memorial located across the Ba Dinh Square.

11th G-20 Summit 2016 Concluded in Hangzhou, China

The 11th Summit of the Group of Twenty (G20) concluded in the eastern Chinese city of Hangzhou. The theme of 2016 G20 Summit was Toward an Innovative, Invigorated, Interconnected & Inclusive World Economy. The chair of the summit was Xi Jinping, President of China.

Leaders of G20 members, guest countries and international



organizations exchanged in-depth views on topics such as more efficient global economic and financial

governance, robust international trade and investment, as well as inclusive and interconnected development, and jointly discussed other prominent issues affecting world economy such as climate change, refugees, anti-terrorism financing and global public health, reaching broad consensus.

Chancellor Angela Merkel of Germany, presidency of the G20 in 2017 introduced visions and plans in hosting the Hamburg Summit. The summit adopted the G20 Leaders' Communiqué of the Hangzhou Summit.

Important Points to be look out for from the Summit

- Strengthen macro-policy communication and coordination, work in the spirit of partnership to promote mutual help and win-win cooperation and concentrate our mind and energy to pursue strong, sustainable, balanced and inclusive growth.
- Determined to break a new path for growth and instill new dynamism into the world economy.
- The G20 Blueprint on Innovative Growth was adopted.
- Determined to improve global economic and financial governance to enhance the resilience of the world economy.
- Determined to revitalize international trade and investment as key engines of growth and build an open world economy.
- G20 Strategy for Global Trade Growth and the G20 Guiding Principles for Global Investment Policymaking which lays out the first global framework of multilateral rules governing international investment. Determined to promote inclusive and interconnected development so that G20 cooperation will deliver benefits to the whole world.
- Devised a groundbreaking Action Plan on the 2030 Agenda for Sustainable Development.

Weather Satellite, INSAT-3DR launched by ISRO

India's space odyssey crossed a milestone again when a locally made cryogenic engine helped power a rocket that carried an

advanced weather satellite to space. Indian Space Research Organisation's (Isro) Geosynchronous Satellite Launch Vehicle-F05 (GSLV-F05) lifted off from the Satish Dhawan Space Centre at Sriharikota in Andhra Pradesh, carrying with it the INSAT-3DR weather satellite.



"GSLV-F05 is the tenth flight of India's Geosynchronous Satellite Launch Vehicle (GSLV). GSLV-F05 is the flight in which the indigenously developed Cryogenic Upper Stage (CUS) is being carried on-board for the fourth time during a GSLV flight," Isro said in a statement after the rocket launch.

The 2,211-kg rocket has three stages, and the last stage is fitted with the cryogenic engine which provides a thrust 1.5 times greater than in vehicles propelled by conventional liquid rocket engines.

INSAT-3DR has a Data Relay Transponder as well as a Search and Rescue Transponder to assist search and rescue operations of security agencies including all defence forces, the Coast Guard, and in shipping.

The INSAT-3DR joins KALPANA-1 and INSAT-3D meteorological satellites currently orbiting in space. INSAT-3DR will be capable of imaging in two thermal infrared bands for estimation of sea surface temperature with better accuracy.

Stan Wawrinka won his first US Open Title



Championships).

Angelique Kerber and Stan Wawrinka has won the women's and men's singles US Open titles 2016 and with that they will be taking home record \$3.5 million each.

US Open is the fourth and final events that make up the annual Grand Slam of tennis (the other tournaments are the Australian Open, the French Open, and the Wimbledon

Let's look at the results of the last Grand Slam of the year 2016:

- **Men's Singles:** Switzerland's Stan Wawrinka defeated Serbia's Novak Djokovic. This was Wawrinka's first appearance in the final of the tournament.
- **Women's Singles:** Germany's Angelique Kerber defeated Czech Republic's Karolína Plíšková.
- **Men's Doubles:** United Kingdom's Jamie Murray & Brazil's Bruno Soares defeated Spain's Pablo Carreño Busta & Guillermo García-López.
- **Women's Doubles:** US's Bethanie Mattek-Sands & Czech Republic's Lucie Šafářová defeated France's Caroline Garcia & France Kristina Mladenovic.
- **Mixed Doubles:** Germany's Laura Siegemund & Croatia's Mate Pavić defeated US's Coco Vandeweghe & Rajeev Ram.

Emmy Awards for the year 2016 announced

The 68th Annual Primetime Emmy Awards was announced in Los Angeles, California, U.S. The **Game of Thrones** won best drama series at the 2016 Primetime Emmy Awards, while **Veep** took home the top comedy award. The **People v. O.J. Simpson: American Crime Story** also earned several awards, while **Julia Louis-Dreyfus** won her fifth consecutive Emmy in the lead comedy actress category.



Game of Thrones won best drama series at the 2016 Primetime Emmy Awards, while **Veep** took home the top comedy award. The **People v. O.J. Simpson: American Crime Story** also earned several awards, while **Julia Louis-Dreyfus** won her fifth consecutive Emmy in the lead comedy actress category.

People v. O.J. Simpson: American Crime Story also earned several awards, while **Julia Louis-Dreyfus** won her fifth consecutive Emmy in the lead comedy actress category.

Category	Winners
Outstanding drama series	Game of Thrones
Outstanding comedy series	Veep
Outstanding limited series	The People v OJ Simpson
Best television movie	Sherlock: The Abominable Bride
Outstanding lead actor in a drama series	Rami Malek - Mr Robot
Outstanding lead actress in a drama series	Tatiana Maslany - Orphan Black
Outstanding lead actor in a comedy series	Jeffrey Tambor - Transparent
Outstanding lead actress in a comedy series	Julia Louis-Dreyfus - Veep
Outstanding supporting actor in a comedy series	Louie Anderson - Baskets

Outstanding supporting actress in a comedy series	Kate McKinnon - Saturday Night Live
Outstanding supporting actor in a drama series	Ben Mendelsohn - Bloodline
Outstanding supporting actress in a drama series	Dame Maggie Smith - Downton Abbey
Outstanding television movie	Sherlock: The Abominable Bride
Outstanding reality competition series	The Voice
Outstanding variety talk series	Last Week Tonight with John Oliver

Paralympics 2016 Concluded in Brazil

Rio Paralympics 2016

The 15th Rio 2016 Paralympic Games 2016 (7-18 September) is

over now and this time we have witnessed some of the world record-breaking performances by

the athletes. **The 2020 Summer Paralympics, the 16th edition of the international multi-sports event,** will be held in Tokyo, Japan, from 25 August to 6 September 2020. The Paralympic Games are an attempt to provide an equal platform for athletes **with disabilities to showcase their skills at a stage that lets them represent their countries.**

India's flagbearer in Paralympic Opening ceremony - **Devendra Jhajharia**
India's flagbearer in Paralympic closing ceremony - **Mariyappan Thangavelu**

India capped off a successful Paralympic Games campaign in Rio de Janeiro by procuring their best ever haul of four medals, including two golds and a silver and bronze medal apiece. **The Nineteen Indian** competitors (16 Men & 3 Women) participated in Rio 2016 paralympic games for India in Five sports.



MEDAL TABLE PARALYMPIC GAMES:

Rank	Country	Gold	Silver	Bronze	Total
1	China	107	81	51	239
2	Great Britain	64	39	44	147
3	Ukraine	41	37	39	117
4	United States	40	42	30	112
5	Australia	21	29	29	79
43	India	2	1	1	4

Highlights:

Ankur Dhama:

Ankur Dhama is the India's first blind athlete in 30 years to participate at Paralympics this year in Rio De Janeiro, Brazil. At the age of six, Ankur became completely blind when he was in Baghpat in Uttar Pradesh.

Mariyappan Thangavelu Strikes Gold, Varun Bhati Gets Bronze In Paralympics

Indian high jumper Mariyappan Thangavelu became only the third Indian ever to clinch a Paralympic gold, while Varun Bhati secured a bronze as the duo scripted history for the country in the men's T42 high jump event of the Rio Games.



Archer Pooja Khanna finishes ranking round in 29th place

Indian archer Pooja Khanna has finished the ranking round at the 29th spot in the Women's Individual Recurve event of the Rio, weightlifter Le Van Cong's final attempt in the men's 49kg paralympic weightlifting competition made history for Vietnam as he has secured the country's 1st ever paralympic gold medal at the 2016 Rio Paralympics in Brazil.

Deepa Malik becomes 1st Indian woman Paralympic medallist

A historic silver medal ensured Deepa Malik scripted history; she won second place in the women's shotput F53 event at the Rio Paralympics, with a personal best throw of 4.61m.

Devendra Jhajharia wins gold medal in javelin throw at 2016 Rio Paralympics

India's Devendra Jhajharia bettered his own world record to win gold in the men's javelin throw F46 event at the 2016 Rio Paralympics.

New Zealand sprinter Liam Malone broke the men's 200-metre T44 Paralympic Games record held by South Africa's Oscar Pistorius.

An Iranian Para-cyclist has died after a crash during the men's C4-5 road race at the Rio Paralympics.

The Iranian flag has been lowered to half-mast in the Paralympic Village and a period of silence will be observed during Sunday's closing ceremony.

Indians in Paralympians, 2016

Name	Sports
Deepa Malik	Shot-put
Karam jyoti Dalal	Discus Throw
Amit Kumar Saroha	
Farman Basha	Power Lifting
Naresh Sharma	Shooting
Suyash Narayan	Swimming
Pooja Khanna	Archery
Ankur Dhama	Athlete
Dharambir	Club Throw
Virender Dhankar	Javelin Throw/Shotput
Devendra Jhajharia	Javein Throw
Sundar Singh Gurjar	High Jump
Rinku Hooda	
Ranbir Narender	
Sandeep	
Mariyappan Thangavelu	
Varun Singh Bhati	
Sharad Kumar	
Ram Pal	

Success Story : If I CAN, then even YOU CAN DO IT all it takes is Working Hard for It

A graduate engineer in E&C who was imprudent in technical skills so anticipated the ultimate path to get a job is to groundwork for non tech, sounds to be credulous but when started it made me realize the competitive world is messy and ever changing.

I started without any guidance it was July 2014 and the outcome was quite obvious, beginning was with SBI PO shattered me completely, got 48/200, gathered courage and appeared next one it was SBI clerk, the result was same a collapse, this time 112/200 gave me a little mettle, Next one was SIDBI got 94/200 once again a disappointment but by giving these and analyzing the pattern I quickly realized something is lagging and that was a guidance.

“The ray of hope came in the form of BA just before PO-VI and CWE-VI Clerk as I came to know about them, I mugged up all their capsules and appeared result started to come and from there I didn't look back I always tried to be better than what I was yesterday, I was in competition with myself only a single thought that let me going.”

Sharing the gloomy side but yet encouraging one:-

1. SBI PO 48/200 an epic failure not even qualified cut off in 2 sections.
2. SBI clerk 112/200 failure
3. SIDBI 94/200 failure cut off 114
4. RBI Assistant 146/200 failed cut off 160 around
5. RRB PO 109 but didn't got a call
6. RRB clerk 160 but no call
7. NICL AO missed by 1 mark
8. NIACL AO missed by 4 marks
9. UIIC AO by 2 marks
10. Oriental AO by 1.75 marks
11. SBI Associate PO missed by 4 marks for interview

But after every dark night there is a bright morning, qualified many...but success was still far to reach...

1. Bob cards failed in interview
2. NIACL Asst. got 157 written but missed after interview
3. NICL Asst. rejected in interview
4. Syndicate Bank Manipal rejected in interview later selected through contingency list.
5. NICL Asst. rejected in interview
6. SBI PO interview rejection.
7. IBPS PO reserve list wasted my one year who thought but it happened L
8. NABARD Mains was not even close to the cut off

But someone has rightly said...

लहरोँ से डर कर नौका पार नहीं होती,

कोशिश करने वालों की कभी हार नहीं होती। So it started coming

- First was LVB Laxmi Vilas bank (Chennai)
- Syndicate bank Manipal reserve list they declared 5-6 lists
- BOB Manipal written score 121/200 got 16 batch but was puzzled
- The biggest relief IBPS Clerk got 160 written and overall 76.6 got PNB

➤ Just 3 days before my PNB joining, SBI Clerk result came out and I scored 163/200 and 194/235 the biggest booster for me to get the tempo going, I decided not to join PNB and wait till October-November. Meanwhile it gave me 3-4 months' intense preparation and I converted that time to be the milestone for my carrier, I covered all my loop holes and also took coaching of Indian economics in Delhi for RBI and NABARD **and now it was my time to convert my work process into reality.**

- 1) SBI PO 2015 appeared in interview, the very exam I didn't even qualified cut off although missed but performed very well no regrets as the best was selected.
- 2) IBPS PO-V scored 112.50, in po4 it was 90 only last year a sharp rise.
- 3) Nabard Asst. scored 168.25 qualified
- 4) SIDBI written
- 5) LIC AAO appeared attempts 151/160 I didn't appear any more exam thereafter, was pretty sure.
- 6) IRDAI phase 1st 112 score and phase 2nd 3 April 2015 scored 167.5 cut off 180

Finally got officer job on 31 March and 1 April both.

PO4 reserve list allotted : BANK OF BARODA

PO5 allotted :-IDBI got 57.40 overall

And my destiny: LIC AAO ON 07 SEP 2016 got 275.75 in written and 45 in interview

Much more is yet to come, all I can say is keep working and of course follow Bankersadda the pioneers to unite virtual world through education hats off to your team without years of efforts I could have been a mediocre performer, thanks my parents and mentors on Bankersadda.

Strategy that I followed:

Maths: Sarvesh kr verma: 9 chapters needed for banking, DI for CAT by Arihant and case studies from the same book , Series questions from Mtyra and previous papers, Permutation and Probability basics from NCERT only rest online test and BA quizzes(Time limit PO 40 minutes)

Reasoning: High level reasoning and puzzles , focused more on puzzles, and syllogism and inequality from solved papers of SBI and PO only and quizzes and tests of BA (Time limit 45 min)

English: Ardent reader of hindu and also referred a magazine the gist of hindu articles, noted down vocab and kept on revising, lastly around 150-180 online test , for English you don't need much just read all I can say and analyze each and every test u give for English. Time 20-25 min

General Awareness: English and GA are my strongest portion, GA daily updates of BA and the Hindu download monthly questionnaire from the other websites, banking and other stuffs from BA capsules and tonic + monthly updates of BA for each and every exam I revised upto 6 month, although 3 month is necessary but that gave me edge w.r.t other aspirants. (8-10min+computers)

Regards,
ASHISH GARG
(KhOpDi the skull)

CURRENT AFFAIRS : SEPTEMBER 2016

INDIA IN NEWS

India pledges Rs 39.97 million for upgrading school in Nepal

India has pledged financial assistance worth 39.97 million Nepali Rupees for the construction of a new building & a hostel facility at a Sanskrit school in eastern Nepal.

India Declares itself Free from Avian Influenza (H5N1)

The Department of Animal Husbandry, Dairying and Fisheries in the Ministry of Agriculture and Farmers welfare has declared India free from Avian Influenza (H5N1) from 5th September, 2016.

All India Radio Launches Balochi Website & Mobile App

All India Radio (AIR) has launched a website and mobile app for its Balochi service to reach people who speak this language across the globe.

Agriculture museum inaugurated at Indira Gandhi Krishi Vishwavidyalaya

An agriculture museum inaugurated at Indira Gandhi Krishi Vishwavidyalaya (IGKV) and it is touted as the first of its kind in any agriculture university in the country. It was set up at a cost of Rs 4.92 crore. Aims to provide information about special agricultural techniques, agriculture-related problems and their solution, villagers' lifestyles.

World Bank sanctions Rs 980 cr for Brahmaputra dredging: Min

The World Bank has announced a funding of Rs 980 crore to dredge the Brahmaputra as an initiative to develop waterways to Bangladesh and to other South East Asian countries which give fillip to trade and industry in the Area.

Govt launches toll-free number for postal complaints

Ministry of Communications has launched India Post Help Centre and a Toll-Free Number 1924 to address the grievances of people in the Country related to Department of Posts. The Help Centre has been launched in three languages -Hindi, English and Malayalam and gradually all regional languages will be included & will be functioning from 8 A.M to 8 P.M on all working days except holidays.

India world's third biggest tech start-up hub: ASSOCHAM

India is home to the 3rd largest number of technology-driven start-ups in the world, with the US and the UK occupying the top two positions. In the technology driven start-ups, India has moved up to 3rd position with the US occupying the top position

with more than 47,000 and the UK with over 4,500.

Cabinet approves establishment of HEFA

The Cabinet has approved the creation of the Higher Education Financing Agency (HEFA), for developing high-quality infrastructure in premier educational institutions. The HEFA would be jointly promoted by the identified Promoter and the Ministry of Human Resource Development with an authorised capital of Rs. 2,000 crore, out of which the Government's equity would be Rs. 1,000 crore.

World's first made-in-India leprosy vaccine out on pilot basis

The Indian Institute of Immunology in New Delhi has developed mycobacterium indicus pranii (MIP), an exclusive and completely domestic vaccine for leprosy.

Mexico sets up consulate in South India

Mexico has set up its consulate in south India in Chennai that will cater to Tamil Nadu, Kerala, Karnataka, Andhra Pradesh and Telangana.

CCEA approves proposal for initiation of 3rd phase of TEQIP

Cabinet Committee on Economic Affairs approved the proposal for initiation of the 3rd Phase of Technical Education Quality Improvement Programme (TEQIP). The project will be implemented as a 'Central Sector Scheme' with total project outlay of Rs. 3600 crore. For this project, external assistance will be given by World Bank through International Development Association (IDA).

CBDT launches online 'e-nivaran' to resolve I-T grievances

Central Board of Direct Taxes (C) has launched the ambitious 'e-nivaran' facility for online redressal of taxpayers' grievances related to refunds, ITRs and PAN among others as part of its initiative to reduce instances of harassment of the public when it comes to complaints related to the I-T department.



Yoga guru Ramdev sets up mega food park in Nagpur

Renowned Yog Guru and founder of Patanjali group Baba Ramdev has laid the foundation stone of his dream project Patanjali Mega Food and Herbal Park in Mihan area which is located at outskirts of Nagpur. This mega food park will comprise of Patanjali's production units and it would provide

direct employment to 10,000 youths.

Railways to implement Flexi Fare system in Rajdhani, Shatabdi & Duronto trains

The Base Fare for Rajdhani, Duronto and Shatabdi class of trains will be on flexi fare system. Under the new 'flexi fare system', the base fare of tickets will increase with the rising demand. The new fare structure will, however, not be applicable to 1 AC and executive class coaches.

First LIGO lab outside U.S. may come up in Maharashtra's Hingoli

The Laser Interferometer Gravitational-wave Observatory (LIGO) project that was given the in-principle approval by the Union Cabinet may come up in Maharashtra's Hingoli district. It would be third such laboratory in the world, first outside the United States.

MEA launches online module for Indian students studying abroad

For maintaining the records and database of Indian students studying abroad, Government of India has launched a Student Registration module in MADAD portal (madad.gov.in). Union Minister of External Affairs Sushma Swaraj on twitter urged students studying in abroad to register on MADAD portal.

Centre approves Rs 450 cr for five states under Swadesh Darshan scheme

The Government has approved 450 crore rupees for Madhya Pradesh, Uttarakhand, Tamil Nadu, Uttar Pradesh and Sikkim under the Swadesh Darshan scheme. The Tourism Ministry approved the amount for the development of Heritage circuit in Madhya Pradesh and Uttarakhand, Ramayana Circuit in Uttar Pradesh, North East Circuit in Sikkim and Coastal Circuit of Tamil Nadu.

Dharmendra Pradhan launches 'Gas4India' campaign to boost natural gas use



The Union Minister of Petroleum and Natural Gas Dharmendra Pradhan has launched Gas4India campaign for the aimed at promoting the use of gas in the country. New Gas4India is a unified cross-country, multimedia, multi-event campaign to communicate the national, social, economic and ecological benefits of using natural gas as the fuel of choice to every citizen who uses, or will use in the

near future.

Indian traditional language Sanskrit becomes part of United Nation's charter

United Nations, has included into it the most ancient and traditional language of India, Sanskrit into its charter. A charter binds the assembly of nations. The charter being translated into the Sanskrit language is the first of its kind attempt to make it to such an important international document.

1st phase of ESIC's pilot project of telemedicine services inaugurated

Union Minister of State for Labour and Employment Bandaru Dattatreya inaugurated the first phase of telemedicine services of Employees State Insurance Corporation (ESIC) for providing specialist medical services at a distance to insured workers. With this facility, ESIC Model Hospital at Basaidarapur has been connected with three ESIS dispensaries at Katihar (Bihar), Unnao (UP) and Rudarpur (Uttaranchal).

BHEL commissions Unit-4 of Teesta Low Dam hydro power project

State-run BHEL has commissioned the fourth and last unit of the 4x40 MW Teesta Low Dam Hydro Electric Project (HEP) Stage-IV in West Bengal. A stretch of the river greenfield project located in Darjeeling district of West Bengal, Teesta HEP has been set up by NHPC Ltd, on the River Teesta.

PM announces Rs 200 cr for sports in J&K

With a view to engage youth of Jammu & Kashmir in constructive sporting activities, a special package of Rs. 200 crore has been announced by PM Narendra Modi. The package provides for construction of indoor sporting halls in all districts of the State with a view to provide playing facilities to youth during long winter in the state.

Vice President inaugurates the 4th phase of the Vidyadhanam project in Kochi

VP of India Mohammad Hamid Ansari has inaugurated the fourth phase of the Vidyadhanam project, piloted by Prof. K. V. Thomas Vidyadhanam Trust at St.Teresa's College. The project provides financial incentive and scholarship to bright students from government and aided schools, in addition to encouraging cultivation of life skills, such as thrift and financial inclusion.

Govt panel clears 16 highway projects across 11 states

The Government has approved 16 highway projects in 11 states to be executed at a cost of 7,457 crore rupees. The standing Finance Committee has cleared these projects for 622 km. The

projects are in Maharashtra, Odisha, West Bengal, Andhra Pradesh, Gujarat, Chhattisgarh, Haryana, Uttarakhand, Arunachal Pradesh, Assam and Sikkim.

POCSO e-box launched to protect children from sexual offences

Union Minister for Women and Child Development Maneka Gandhi has launched an online complaint box for reporting child sexual abuse. The Protection of Children from Sexual Offences (POCSO) e-Box is an online complaint management system for reporting sexual offences against children.

Visually disabled people get their own online library 'Sugamya Pustakalaya'

Sugamya Pustakalaya: A step towards an Accessible Digital India', an online library for persons with visual disabilities was launched by Ravi Shankar Prasad, Minister for Law & Justice and Electronics & Information Technology at a function organized by Department of Empowerment of Persons with Disabilities, Ministry of Social Justice & Empowerment in Delhi.

Suresh Prabhu commissions new Indian Railways line in Andhra Pradesh

Indian Railways Minister Suresh Prabhu and Andhra Pradesh CM N Chandrababu Naidu has commissioned a new railway line between Nandyala and Yerraguntla. They also flagged off a new passenger train between Nandyala and Kadapa.

Union Cabinet clears Surrogacy Bill

The Union Cabinet has cleared the draft Surrogacy Bill 2016, aimed at regulating commissioning of surrogacy in the country in a proper manner. The bill main aims to safeguard rights of surrogate mothers and make parentage of such children legal.

Cabinet approves nine railway projects to boost infrastructure sector

Cabinet Committee on Economic Affairs gave its approval for 9 projects worth Rs. 24,374.86 crore in nine States for expansion of railway network and connectivity across the country.

Uma Bharti launches Rs 560 cr projects under Namami Gange programme

Union Minister for Water Resources, River Development and Ganga Rejuvenation Sushri Uma Bharti launched various Projects on the Bank of Ganga worth Rs. 560 crore under Namami Gange programme at Ganga Barrage in Kanpur. The Projects launched includes: Interception and diversion plan of Sisamau drain, Networking schemes at Bithoor, River front development scheme at Bithoor & Ghats and five crematoria will be constructed at Bithoor.

Naqvi launches websites for Ministry of Minority Affairs

The Union Minister of State for Minority Affairs (Independent Charge) & Parliamentary Affairs Shri Mukhtar Abbas Naqvi launched new Hindi website and updated and revamped English website of the Minority Affairs Ministry. The new improved and revamped website <http://www.minorityaffairs.gov.in> is very user-friendly and provides easy navigation.

President Pranab Mukherjee launches Akashvani Maitree channel

India state radio broadcaster's Akashvani Maitree Channel, a special Bengali channel targeted at the Bengali-speaking audience of India, Bangladesh and in other countries, was launched by President Pranab Mukherjee. The initiative will provide a platform for blending content both from India and Bangladesh and preserving Bengali culture.

Maneka Gandhi Inaugurate Animal Birth Control Centre in Dehradun

Union Women and Child Development (WCD) Minister Maneka Gandhi inaugurated the state's first animal birth control centre (ABC) at Kedarapuram. The centres will be set up in Nainital and Mussoorie and other five municipal corporations in Haridwar, Haldwani, Kashipur, Haldwani and Roorkee.

India pledges Rs 39.97 million for upgrading school in Nepal

India has pledged financial assistance worth 39.97 million Nepali Rupees for the construction of a new building and a hostel facility at a Sanskrit school in eastern Nepal. The project is being implemented through the Indian government's grant assistance under the small development programme.

Andhra Pradesh police launches pilot project on DNA profiling

Andhra Pradesh Police has launched DNA Index System (DIS), the first-of-its-kind initiative that allows generation of DNA profiles from live samples like saliva and blood stains. The system uses the latest DNA technology tool called RapidHIT

STATES IN NEWS

Andhra Pradesh becomes second state to achieve 100% electrification

Andhra Pradesh has become the 2nd state in the country after Gujarat to achieve 100% electrification of households. JM Financials published the report based on a national -level survey on electrification in various states.

CM inaugurated week-long Onam celebrations in state

Kerala CM Pinarayi Vijayan has inaugurated the Onam celebrations in Thiruvannanthapuram. The inaugural ceremony



State festival of Kerala.

also witnessed the state government honouring noted playback singer P Jayachandran, who has completed 50 years in the field of music. Onam is the biggest festival celebrated in Kerala, India & also the

Uttar Pradesh becomes first state to roll out 'Twitter Seva'

The Uttar Pradesh govt has rolled out 122 Twitter handles and service would help the UP police to strengthen its primary relationship with the citizens. UP DGP Javeed Ahmad added this service would be integrated with the "Dial-100" project which is slated to be launched in October.

Himachal cabinet decides to amend hydro policy 2006

Himachal Pradesh (HP) cabinet has decided to amend the Hydropower Policy 2006 in respect to transfer of shares by Himachalis to non-Himachalis. So that now Himachalis can sell or transfer 49% equity shares to non-Himachalis at any stage after allotment of projects upto 2 MW capacity.

World's biggest river island Majuli gets district status

Majuli, the 400 sq km island on the Brahmaputra has become the first river island district of India, with this Majuli becoming the 35th district of Assam. This was one of the first decisions taken by the Sarbananda Sonowal government in Assam.

Haryana govt to develop 340 villages as Horticulture Villages

Haryana Government led by CM Manohar Lal Khattar has decided to develop 340 villages as Horticulture Villages at a cost of 93 crore rupees during the Golden Jubilee year of the State. It has also decided to establish 140 clusters in these villages.

CM inaugurates Asia's biggest digital library in Silchar

On the occasion of the 55th Teachers' Day Assam, CM Sarbananda Sonowal has inaugurated Asia's biggest digital library dedicated to the memory of Dr. APJ Abdul Kalam, former President of India, in NIT Silchar. The world class library is established with the help of University of Illinois, USA.

Gumthala Garhu becomes first Wifi hotspot village in Haryana

Gumthala Garhu near Pehowa has become the first Wifi hotspot village in Haryana circle under the bulk plan of BSNL for the state. The service was inaugurated by CM Manohar Lal Khattar

from Chandigarh.

Pondy Lt Guv launches Shramdaan movement in remote village

Lt Governor Kiran Bedi has launched 'Shramdaan movement' as part of Swachh Bharat and Swachh Puducherry initiative at a remote village. The initiative is a habit and a movement, and everyone irrespective of status should be involved in the drive against garbage the Lt Governor urged.

Odisha government launches Biju Kanya Ratna Yojana

Odisha CM Naveen Patnaik has launched the 'Biju Kanya Ratna Yojana' (BKRY) and inaugurated 1,000 anganwadi buildings as part of the celebration marking birth centenary of legendary Biju Patnaik. The objective of the scheme is to improve Sex Ratio at Birth (SRB) and Child Sex Ratio (CSR) in the three districts which are Ganjam, Dhenkanal and Angul districts.

Rajasthan launches e-stamping facility

The Rajasthan High Court launched the e-stamp facility in its Jodhpur and Jaipur benches simultaneously. The facility is already available in Delhi, Chhattisgarh and Himachal Pradesh.

Gujarat becomes first state to distribute 2 Cr. LED bulbs

Under the Government's initiative of affordable LEDs for all (UJALA) scheme, Gujarat has become the 1st state to distribute 2 crore LED bulbs. Gujarat has reached this milestone in just 96 days and over 42 lakh households have already benefited from the scheme.

Odisha CM to share his thoughts through Radio every month

Odisha CM, Naveen Patnaik, would share his thoughts on different issues through the radio for 10 minutes every month. This was decided at a meeting chaired by Mr Patnaik. The State government has decided to launch 'Biju Goan Radio' through which the CM would address the people soon.

Maharashtra, Gujarat governors given additional charge

President Pranab Mukherjee has given Maharashtra Governor C. Vidyasagar Rao additional charge of Tamil Nadu, and Gujarat Governor Om Prakash Kohli of Madhya Pradesh.

NABARD sanctions loan for 10 MW solar plant in Haryana

National Bank for Agriculture and Rural Development (NABARD) has sanctioned a loan of Rs 204.67 crore for Haryana under Rural Infrastructure Development Fund for projects including a 10 MW solar plant at Panipat thermal power station.

PM Narendra Modi inaugurates first phase of SAUNI yojana in Jamnagar

PM Narendra Modi inaugurated the 1st of the 4 phases of the

ambitious irrigation scheme (worth Rs 12000 cr), Saurashtra Narmada Avtaran Irrigation Yojana (SAUNI), at the Aji-3 dam near Rajkot. Phase-1 of the project has been developed at a cost of Rs. 1,562 crore with 58 km of pipeline. It is aimed at benefiting 10 dams with 6,475 MCFT of water from the Narmada canal network.

Carborundum Universal inaugurates R&D centre at Hosur

Murugappa Group firm Carborundum Universal (CUMI) inaugurated its Research and Development centre at its industrial ceramics division in Hosur, Tamil Nadu. The centre was inaugurated by M M Murugappan, Chairman of CUMI and Vice Chairman of Murugappa Group, along with others.

West Bengal passes a resolution to rename the state

The West Bengal Assembly has passed a resolution for renaming the state as 'Bangla' in Bengali and 'Bengal' in English, weeks after a proposal in this regard was put forward by CM Mamata Banerjee.

Mehbooba Mufti launches UJALA scheme in Jammu and Kashmir

CM, Mehbooba Mufti has formally launched the Ujala Scheme in Jammu and Kashmir with the distribution of LED bulbs. UJALA is successfully running across various states in the country. UJALA, an acronym for Unnat Jyoti by Affordable LEDs for All.

HRD Minister Prakash Javadekar inaugurates IIT in Dharwad

Union HRD Minister Prakash Javadekar formally inaugurated the institute in Dharwad. The inauguration, which was planned last month end, had to be postponed due to the Kalasa Banduri agitation.

Himachal Health Minister launches ambulance mobile app

Himachal Pradesh Health Minister Kaul Singh Thakur has launched a mobile application called '108 HP' to facilitate efficient access to ambulances for medical emergencies. He also flagged off five new ambulances under 108- National Ambulance Service from the historic Ridge Maidan.

Madhya Pradesh Assembly passes GST Bill

The Madhya Pradesh Assembly has passed the Goods and Service Tax (GST) Constitution Amendment Bill. MP became the seventh state in the country to ratify the historic tax amendment bill.

India's first textile university to come up at Surat

Gujarat government is planning to set up India's first textile university at Surat with an investment of about Rs 800 crore - Rs

900 crore. The textile industry will support the government in the endeavour. The main aim of the university is to provide all kind of support including technology, research and development (R&D), skilled manpower etc.

Bengaluru to host 2017 Bharatiya Pravasi Divas

The IT-BT capital of the country, Bengaluru, will host the 2017 Bharatiya Pravasi Divas. Scheduled to take place on February 7, 8 and 9 of 2017, the Ministry of External Affairs held a meeting with Tourism Minister R V Deshpande for a preliminary round of talks.

Telangana govt to create 17 new districts in October

The two-year-old Telangana government has issued draft notification on rearranging district borders to create 17 new districts. After the completion of the process, the number of districts in the State will go up to 27 from the present 10.

Chhattisgarh passes GST Bill

The Chhattisgarh Assembly has unanimously ratified the Goods and Service Tax (GST) Constitution Amendment Bill becoming the fifth state to pass the bill. Before Chhattisgarh, Himachal, Assam, Jharkhand and Bihar became the first four states to pass the bill.



Sakshi Malik will be brand ambassador of Beti Bachao, Beti Padhao campaign: Haryana CM

Haryana CM Manohar Lal Khattar has announced that Sakshi Malik, India's bronze medalist at the Rio Olympics, will be the brand ambassador of the Beti Bachao, Beti Padhao campaign in the state. The programme aims to empower the girl child and reduce rates of female foeticide in districts with low child sex ratio.

Delhi To Get All-New Aerospace Museum

Delhi will have a sprawling new Aerospace Museum close to the international airport focused mainly on Nation's rich aviation history. New Aerospace Museum is not only meant to preserve the glorious tradition of the IAF but also to create awareness in general public about India's rich Aerospace heritage.

Jharkhand becomes first state to implement PFMS

Jharkhand is the first state in the country to have implemented Public Fund Management System (PFMS).

Maharashtra to have own law for internal security

The newly drafted Maharashtra Protection of Internal Security Act (MPISA) has proposed setting up of Special Security Zones (SSZ) where movement of arms, explosives and inflow of unaccounted funds will be prohibited. Maharashtra is the first State in the country to draft its own internal security act.

Punjab CM Prakash Singh Badal launches mobile app for farmers

Punjab Chief Minister Parkash Singh Badal on Monday launched a mobile app 'Kisan Suvidha' for farmers. The app will provide basic information on weather updates, crop prices and expert advices.

Odisha Government inks lease agreement on Jagatjore Shrimp Culture Project

Odisha government signed a long-term lease agreement with Falcon Marine Exports for the operation of Jagatjore Shrimp Culture Project in coastal Kendrapara district.

Guidelines issued by HP government related to scientific mining & transparent auction

Himachal Pradesh government notified the guidelines for transparent auction and scientific mining and hiked the penalty for offences under the mining act. The government has also decided that the mining lease would be granted through open auction.

Odisha bags 9th Global Agriculture Leadership Award 2016

Odisha bags 9th Global Agriculture Leadership Award 2016 at the National Level gathering of important stake-holders in agriculture development at the Agriculture Leadership Summit at Hotel Taj Palace, New Delhi.

Guinness World Records declare Majuli as the largest river island

The Guinness World Records declared Assam's Majuli as the largest river island in the world. The island is located in the Brahmaputra River.

Gujarat, AAI, Union Government sign tripartite MoU to build small airports

The Gujarat government signed a tripartite MoU with the Ministry of Civil Aviation and the Airport Authority of India (AAI) to develop 11 small airports and airstrips under the Centre's Regional Connectivity Scheme (RCS). With this MoU, Gujarat became the third State after Jharkhand and Maharashtra to have signed such an agreement.

South India's first Children's Court inaugurated in Hyderabad

First Children's Court inaugurated in Hyderabad. Moreover, it was also the first Children Court in South India. However, two other states Goa and Delhi have already got their child friendly court.

Andhra Pradesh launches DNA Index System to tackle crime

Andhra Pradesh launched the DNA Index System (DIS) for DNA (Deoxyribonucleic acid) profiling of criminals. The system uses the latest DNA technology tool, known as RapidHIT DNA System, developed by IntegenX of United States. With this, Andhra Pradesh became the first state in the country to do so.

Banwarilal Purohit sworn in as Governor of Assam

Banwarilal Purohit was sworn in as the Governor of Assam. Chief Justice of Gauhati High Court Ajit Singh administered the oath of office and secrecy to Purohit at the Raj Bhavan in Gauhati.

V P Singh Badnore sworn in as Governor of Punjab

VP Singh Badnore took oath as the new Governor of Punjab. He was also sworn in as the Administrator of Chandigarh Administration.

BANKS IN NEWS

Vijaya Bank gets award

Vijaya Bank has bagged the second prize under Rajbhasha Kirti Puraskar (Region C) for the year 2015-16. The prize was accepted by Kishore Sansi, Managing Director & CEO Vijaya Bank, from President Pranab Mukherjee at Rashtrapati Bhavan Auditorium, New Delhi.

Qatar National Bank soon to open branch in India

Qatar National Bank (QNB) has received approval from India's regulatory authorities to open a branch in the country and begin operations. The bank has its presence in more than 30 countries.

ICICI Bank deploys software robots

ICICI Bank has announced the deployment of 'Software Robotics' in over 200 business processes across various functions of the bank. This move will enable the banks employees to focus more on value-added functions. The software robots will reduce the response time to customers by up to 60%.

Union Bank rolls out mobile app

Union Bank of India (UBI) has launched USSD (unstructured supplementary service data) based '*99#' mobile application on Play Store on Android platform. This '*99#' mobile app does not

require internet connectivity to perform banking and other value-added services.

NPCI launches Bharat Bill Payment System pilot project

National Payments Corporation of India (NPCI) launched a pilot project for Bharat Bill Payment System (BBPS) with 26 Bharat Bill Payment Operating Units (BBPOUs). In the first phase, BBPS will cover repetitive payments for everyday utility services such as electricity, water, gas, telephone and Direct-to-Home (DTH). As on date, 62 entities have received in-principle approval from RBI to function as Operating Units (OU), out of which 52 are banking entities and 10 are non-banking entities.

Canara Bank launches UPI app 'empower'

Canara Bank has launched Unified Payment Interface (UPI) app named 'empower'. The mobile app works on NPCI platform and enables any bank customers to pay and collect using this single app.

Ujjivan bags award for inclusive insurance

Ujjivan Financial Services Ltd, a microfinance institution, has won the Platinum Award for Inclusive Insurance at the SKOCH Insurance Awards 2016.

DCB launches 'mVisa', a mobile-based payment solution

DCB Bank has launched 'mVisa', a mobile-based payment solution that will make payments at retail outlets much easier. DCB Bank Ltd. is a private sector scheduled commercial bank in India.

RBI asks banks to provide loans to women SHGs in rural areas at 7%

RBI has asked banks to provide loans to women self-help groups in rural areas at 7% per annum, as per the government's revised guidelines for the current financial year. The Reserve Bank said in a notification that all women self-help groups (SHGs) will be eligible for interest subvention on credit up to three lakh rupees at 7% per annum under the Deendayal Antyodaya Yojana - National Rural Livelihoods Mission in 250 districts.

India to grow at 7.6% in FY'17: RBI

The RBI, in its Annual Report, has projected India's growth rate at 7.6% in 2016-17, up from 7.2% last year.

Doha Bank opens branch in Kerala

Qatar's based Doha Bank has opened a branch, the Kerala's Chief Minister Pinarayi Vijayan inaugurated the branch. The Bank also held an investors conference on Kerala-Qatar Investment Opportunities, which saw a participation of major

investors and SMEs from the state and GCC and Doha Bank officials.

World Bank sanctions Rs. 980 cr for Brahmaputra dredging

The World Bank has announced a funding of Rs 980 crore to dredge the Brahmaputra as an initiative to develop waterways to Bangladesh and to other South East Asian countries which is give fillip to trade and industry in the Area.

Karnataka Bank launches UPI app KBL-SMATRz

Karnataka Bank has come up with a mobile application named KBL-SMATRz built on the unified payments interface (UPI) platform of the National Payments Corporation of India (NPCI). The App was launched by the Managing Director (MD) and Chief Executive Officer (CEO) P Jayarama Bhat, Karnataka Bank.

21 banks to go live with Unified Payments Interface

National Payments Corporation of India (NPCI), the umbrella organisation for all retail payments system in India headed by A. P. Hota has announced that customers of 21 banks will shortly able to use Unified Payments Interface (UPI) for sending and collecting money via a smartphone using a Virtual Payment Address (VPA).

Government selects four investment banks for share sale in HUDCO

Department of Investment and Public Asset Management (DIPAM) has selected four investment banks for the proposed share sale in HUDCO (Housing & Urban Development Corporation Limited). These four banks include Nomura, SBI Caps, ICICI Securities and IDBI Capital.

Mahindra AMC launches new scheme

Mahindra Asset Management Company has launched an open ended scheme, which will generate long-term capital appreciation through a diversified portfolio of equity and equity-related securities.

ECONOMY NEWS

Govt notifies GST Council

The Government has formally notified the GST Council, which will decide on the tax rate, exempted goods and the threshold under the new taxation regime. The council will be chaired by Union Finance Minister and have Minister in charge of Finance or Taxation or any other Minister nominated by each State Government as its member.

Centre issues fresh guidelines for flexi-fund for CSS

Government has issued fresh flexi-fund guidelines that will give more freedom to states in spending money under the Centrally Sponsored Schemes (CSS) to meet local developmental requirements. Under the new norms, flexi-funds in each CSS has been increased from the current 10% to 25% for states and 30% for Union Territories.

President approves GST Bill

President Pranab Mukherjee has signed the GST Constitution Amendment Bill thereby making it a law. GST Bill has been ratified by the Parliament & as well as 16 states of which Assam was the first to have ratified the Bill.

AP passes resolution supporting GST Bill

The Andhra Pradesh Legislative Assembly has passed a resolution supporting the Constitution Amendment and the Goods and Services Tax Bill. GST is a tax levied when a consumer buys a good or service.

Puducherry ratifies GST Bill

The Puducherry Assembly has ratified the Goods and Service Tax (GST) Constitution Amendment Bill amid a walkout by AIADMK members. The House adopted a resolution tabled by CM V. Narayanasamy for ratification of the bill.

Odisha ratifies GST Bill

The Odisha Legislative Assembly has unanimously ratified the Constitution Amendment Bill for Goods and Services Tax (GST). Chief Minister Naveen Patnaik moved the statutory resolution in this regard at a special one-day session of the assembly. Odisha became the 16th state to ratify it.

Country's economic growth recorded 7.1% in first quarter of current fiscal

The country's economy grew at 7.1% in the April to June quarter of the current fiscal. This is the slowest growth in the last six quarters and was mainly due to the subdued performance of the mining, construction and farm sectors.

Goa Assembly ratifies GST Bill

The Goa Legislative Assembly has unanimously passed a resolution ratifying the amendments to the Constitution to pave way for the presidential assent to the Goods and Services (GST) Bill, 2016. Goa is the 15th State Assembly to ratify the Bill.

Mizoram Assembly becomes 13th state to ratify GST

Mizoram Assembly has ratified the goods and services tax (GST) constitutional amendment bill by adopting an official resolution.

13 states, including Delhi and Bihar, have so far approved the legislation.

Telangana ratifies GST Bill

The Telangana Legislative Assembly and Legislative Council have unanimously passed a resolution giving their nod to the proposed Amendment to the Constitution to pass the GST (Goods and Service Tax) bill.

Haryana Assembly ratifies GST Bill

The Haryana Assembly has unanimously ratified the Constitution Amendment Bill on Goods and Services Tax (GST).

GST bill unanimously passed in Maharashtra Assembly

The Maharashtra Assembly's has unanimously passed the Goods and Services Tax (GST) Constitutional Amendment Bill. The Finance Minister Sudhir Mungantiwar tabled a resolution in the Assembly to ratify the bill.

Nagaland becomes eighth State to passes GST bill

Nagaland assembly has passed the GST bill, becoming the 8th State to ratify the tax reform. The bill was endorsed by the Nagaland Legislative Assembly by a voice vote following a brief discussion.

Indian economy to grow 7.9% this fiscal: Goldman Sachs

US multinational banking firm Goldman Sachs says Indian economy is likely to grow 7.9% in this year 2016-17, growth in the current fiscal driven by better monsoon, government pay hike, key reforms and FDI inflows.

Delhi Assembly passes GST Bill

Delhi Assembly today ratified the Goods and Service Tax Constitution Amendment Bill. It is the third non-BJP-ruled state and overall the 8th to clear the proposed tax regime. Deputy CM Manish Sisodia called GST a "big reform" which will be good for the country's economy and growth.

Gujarat Assembly ratifies GST Bill

The Gujarat Assembly has passed the Goods and Service Tax (GST) Constitution Amendment Bill. The state assembly had convened a special session to ratify the Bill that was passed by Parliament earlier this month. Gujarat is the sixth state to pass the bill.

Himachal Pradesh assembly ratifies GST Bill

The Himachal Pradesh assembly has unanimously ratified the Constitution Amendment Bill on GST. The Bill was introduced by CM Virbhadr Singh on the first day of five-day monsoon

session. Himachal Pradesh has become the fourth after Assam, Bihar and Jharkhand to ratify the Bill.

NLC Ltd to add 6,820 Mw of power at cost of Rs 27,740 crore

Navaratna company NLC Ltd, which comes under the Ministry of Coal, is planning to add over 6,821 megawatt (Mw) of power, with an investment of over Rs 27,740 crore in these projects.

BUSINESS NEWS

MobiKwik launches one step offline payments with 'Bubble Pin'

MobiKwik, the fin-tech player has launched one-step offline payments with 'Bubble Pin'. The pin is a combination of numbers and alphabets. Bubble pin also makes the transaction more secure as no phone number is required to be shared.

Intel acquires Google's Project Tango partner Movidius

Intel has acquired computer vision firm Movidius, which partnered with Google to develop 3D space mapping technology for Project Tango devices.

Tata Power, ICICI Venture team up, eye power assets

Electricity generator Tata Power and ICICI Venture grouped together to take over stressed power assets in India. Tata Power holds a 26% stake and ICICI Ventures holds 74% stake in Resurgent Power Ventures.

Uber partners NSDC, Maruti to skill 1 million by 2018

Transportation app Uber has launched a new initiative in partnership with Maruti Suzuki and National Skill Development Corporation (NSDC) for creating livelihood opportunities for one million people by 2018.

PayU acquires Citrus Pay for \$130 million

Global online payment service provider PayU has acquired Indian payments technology player, Citrus Pay, for \$130 million. Citrus Pay's managing director Amrish Rau will take charge of the merged entity, and as chief executive of PayU in India.

Reliance Communications-Aircel merger approved

Reliance Communications (RCom) board has approved the company's merger with Aircel, in one of the biggest deals in the telecom space in recent times. It also comes at a time when Mukesh Ambani's Reliance Jio has made an aggressive entry into the telecom industry, sending jitters among incumbents. RCom and Maxis Communications Berhad (MCB) will each hold a 50% stake in the merged entity.

HP to Acquire Samsung Printer Business for \$1.05 Billion

HP Inc. agreed to buy Samsung Electronics Co.'s printer business for \$1.05 billion, a deal designed to bolster the Silicon Valley company's offerings in the market for high-volume devices that handle printing and copying for office workgroups.

HDFC Ergo completes acquisition of L&T Insurance

HDFC Ergo General Insurance Company (HDFC ERGO) has completed the acquisition of 100 percent shares of L&T General Insurance Company (L&T Insurance) for Rs. 551 crore. The company has recently received approvals from the Insurance Regulatory and Development Authority of India (IRDA) and Competition Commission of India.

Rajasthan partners with Cisco for connected learning solution

Rajasthan's education department has partnered with US-based technology firm Cisco to promote digital learning across the state using virtual digital room solutions. It aims to enhance the quality of education through digital learning for academia to connect, collaborate, create, and share content across 12 centres of State Institute for Education Management & Training (SIEMAT) in the state.

Canada's British Columbia issues masala bonds

Canada's British Columbia has become the first foreign government issuer of masala bonds, with the province successfully raising Rs.5 billion through a rupee-denominated bond on the London Stock Exchange.

Infosys sets up JV for Saudi Arabian market

Software major, Infosys has entered into a joint venture (JV) with the Saudi Prerogative Company to offer IT services in the middle eastern country. The Bengaluru-based IT services firm will own 70% of the JV.

Sony Pictures Network acquires Ten Sports for \$385 mn

Sony Pictures Networks India (SPN) and ZEE have entered into definitive agreements to acquire TEN Sports Network and its subsidiaries for \$385 million. The acquisition will add five sports channels, TEN 1, TEN 1 HD, TEN 2, TEN 3, TEN Golf HD to SPN's existing portfolio of channels.

Pfizer to acquire oncology specialist Medivation for \$ 14 bn

American global pharmaceutical major Pfizer Inc has entered into an agreement to acquire Medivation Inc, a biopharmaceutical company focused on developing and commercialising small molecules for oncology, for a total enterprise value of approximately \$ 14 billion.

Amazon launches dedicated online Telugu book store

E-commerce portal Amazon.in has announced the launch of a dedicated online Telugu book store with a wide-range of over 10,000 Telugu titles. Now, Readers can get Telugu translations of English bestsellers in the store.

AGREEMENTS/MOU SIGNED

Gionee signs MoU with Haryana govt for investment of Rs 500 cr

Gionee mobile phones would now be manufactured in Haryana as the company has signed an MoU with the state government to set up its phone manufacturing hub with an initial investment of Rs 500 crore which, later on, would be increased to Rs 1,500 crore.

Jawaharlal Nehru Port Trust to sign agreement with bankers for External Commercial Borrowing

Mumbai based container port, Jawaharlal Nehru Port has signed an agreement with State Bank of India and Development Bank of Singapore for External Commercial Borrowing to the tune of USD 400 Million under External Commercial Borrowings.

Axis Bank, BHU team up for banking courses

AXIS BANK

Private sector Axis Bank has tied up with Banaras Hindu University (BHU) to offer

specialised banking courses. The bank along with the Faculty of Commerce at BHU will develop the design and curriculum of courses, besides deciding on e-learning modules, structure and courseware.

Freecharge partners with Axis Bank, launches UPI payment

Digital payment platform FreeCharge in partnership with Axis Bank has launched Unified Payments Interface (UPI) that allows instant transactions from a smartphone using a virtual payment address (VPA). Customers will be able to create a virtual address on the Freecharge Android app and link it to their bank account to register on the UPI platform.

Wadhwa Group ties-up with Snapdeal

Realty player Wadhwa Group has tied up with e-commerce platform Sanpdeal to make its properties accessible to customers online. With this tie-up, the Wadhwa Group has stepped into the e-commerce space, and is now displaying its project.

Cabinet approved Extradition Treaty between India and Afghanistan

The Union Cabinet approved the signing and ratification of the Extradition Treaty between India and Afghanistan. The treaty would provide a legal framework for seeking extradition of terrorists, economic offenders and other criminals from and to the Afghanistan.

Cabinet approved Bilateral Technical Arrangement between India and Switzerland

The Union Cabinet given its approval for signing of the Technical Arrangement between India and Switzerland on the identification and return of Swiss and Indian Nationals and its implementation.

Cabinet approves extension of contract between India and the International Seabed Authority

The Union Cabinet approved the extension of a contract between India and the International Seabed Authority (ISA) for exploration of poly-metallic nodules. The contract exists between the Ministry of Earth Sciences and the ISA.

Cabinet approves MoU between India and Kenya

The Union Cabinet has given its ex-post-facto approval for the MoU between India and Kenya on cooperation in the field of National Housing Policy Development and Management (NHPDM).

India, South Africa in ICT cooperation pact

India and South Africa have signed an MoU for promoting bilateral cooperation in the field of Information and Communication Technologies. It will help to establish inter-institutional cooperation and relations between the two parties in order to promote cooperation in the field of ICT.

Union Cabinet Approvals

- ✚ The Union cabinet approved an MoU with Myanmar for cooperation in the field of traditional systems of medicine.
- ✚ The Cabinet gave its approval to the revised DTAA between India and Cyprus that provides for source-based taxation of capital gains on transfer of shares instead of one based on residence.
- ✚ The Union Cabinet approved of a new air services agreement between India and Fiji that would allow Indian airlines to fly to any point in the island nation.
- ✚ The Union Cabinet chaired by the PM Shri Narendra Modi has been approved of the signing of a MoU between India and South Africa to establish cooperation in Grassroots Innovation.

Telangana signs MoU to help Goa in IT development

The Telangana government has been signed a MoU with the Goa government to help the latter in information technology (IT) development. Through this MoU, Telangana will help the Goa government in formulating relevant policies.

Paytm to power IRCTC's payment gateway

Mobile payment and commerce platform Paytm has tied up with the country's largest rail ticketing platform IRCTC to enable digital payments for travellers.

India Signs MoU With Sri Lanka To Support Fishermen And Farmers

India and Sri Lanka Signed MoU to support livelihood of the fishing and farming communities by providing them equipment worth USD 2 million in the country's southern Hambantota district.

Government approves agreement with Kenya for cooperation in National Housing Policy

Union Cabinet gave approval for the MoU between India and Kenya on cooperation in the field of National Housing Policy Development and Management (NHPDM).

HP, Singapore sign MoU for smart integrated township

Himachal Pradesh government has signed a preliminary MoU with Singapore government for developing a smart integrated township in Jathiadevi near Shimla airport.

Rajasthan government signs MoU to develop education infrastructure in the state

Rajasthan Government has signed MoU with educational institutes, which will adopt 50 Adarsh and Utkarsh Vidyalaya in the state for developing education sector infrastructure. The MoU was signed in the presence of chief minister Vasundhara Raje.

India, Greece sign MoU for air services agreement

India has signed a preliminary pact with Greece for bilateral Air Services Agreement that proposes to allow unlimited points of call for domestic airlines in the European nation.

India and Chile expand preferential trading pact to boost economic ties

India and Chile have expanded their Preferential Trade Agreement (PTA) with both offerings to lower or eliminate tariffs on a number of items traded with each other. Chile has offered concessions to India on 1798 tariff lines with margin of preference ranging from 30 per cent to 100%.

TCS joins hands with SASTRA Varsity to train school teachers

Tata Consultancy Services (TCS) has announced that it has partnered with Thanjavur-based Shanmugha Arts, Science, Technology & Research Academy (SASTRA) Deemed University to train over 2,000 teachers from Tamil Nadu on digital teaching methods, and also set up a teacher's training centre at the varsity campus.

Microsoft, Google sign up for EU-US Privacy Shield

American tech giants Microsoft, Google and Salesforce have officially adopted the EU-US Privacy Shield framework. It will enable them to receive personal data from the European Union (EU) in compliance with the new standards. There are now among the 103 companies that have the framework.

India and Vietnam Sign 12 Agreements to Boost Bilateral Ties

India and Vietnam have signed 12 agreements for cooperation in areas, including defence and IT, to boost bilateral ties. PM Modi said New Delhi will provide \$500 million credit line for Vietnam for defence cooperation. India also offered a grant of \$5 million to set up a software park in Vietnam.

LG Electronic ties up with Amazon on smart-home services

LG Electronics Inc. has tied-up with Amazon.com Inc on smart-home services. This tie-up will help enabling the services of Amazon such as the Alexa virtual assistant on some of the electronics maker's devices. A

Gujarat signs MoU with aviation ministry

The Gujarat government has signed a MoU with the ministry of civil aviation to develop 11 airports and airstrips to boost regional connectivity. The central government's new civil aviation policy emphasizes regional connectivity to serve unconnected or under-served towns and boost infrastructure.

Amar Chitra Katha sign MoU to publish comic book on Swachh Bharat Mission

Storyteller to generations of Indians, Amar Chitra Katha will now publish and distribute a special edition of a comic book focusing on Swachh Bharat Mission. The Ministry of Urban Development (MoUD) has signed a MoU with Amar Chitra Katha to publish and distribute a 32-page comic.

Mobikwik joins hand with 12 state electricity boards

India's largest digital payment company, MobiKwik has announced coalition with 12 state electricity boards. The MobiKwik took this initiative ahead of its expansion plan to set up a national base for utility payments. Bihar, Madhya Pradesh, Odisha, Tripura, Meghalaya, Calcutta, Rajasthan and union

territories of Daman and Diu are the states inclusive in the coalition agreement.

PTC fin arm ties up with banks for clean energy project loans

Ptc India Financial Services (PFS) has tied up with banks that will provide loans to companies engaged in renewable energy (RE) production. The Banks will issue credit upon the request made by the companies involved in Clean Energy projects on various associated costs for issuance of letter of credit, which generally takes 3-5 months.

Myanmar and India signed four agreements to boost bilateral cooperation

India and Myanmar have signed four agreements following bilateral talks between Prime Minister Narendra Modi and visiting Myanmar President Htin Kyaw during his visit. The agreements were: Construction of 69 bridges on the Tamu-Kalewa section of the trilateral highway connecting India, Myanmar and Thailand, Upgrading the Kalewa-Yargi section of the trilateral highway, Cooperation in the field of renewable energy, & Cooperation in the field of Traditional Systems of Medicine.

India and US Sign Deal To Share Military Assets And Bases

India and the United States have signed an important agreement that will make the two nations logistical allies and enable both the militaries to use each other's assets and bases for repair and replenishment of supplies.

BCCI signs MoU with TERI to promote renewable energy



Bengal Chamber of Commerce and Industry (BCCI) has signed a MoU with The Energy and Resources Institute (Teri) for promoting renewable energy.

IndusInd Bank ties up with IBM for improved customer engagement services

Private sector lender IndusInd Bank has tied up with IBM to use its Cloud commerce solutions to transform customer engagements and enhance its cross-sell platforms. Under this three year strategic agreement, IBM will provide a cloud and predictive analytics based multi-channel campaign management solution that enables IndusInd Bank to strengthen its online banking presence while improving the product holding per customer.

CTTC-Bhubaneswar signs agreement with ISRO

Central Tool Room and Training Centre (CTTC), Bhubaneswar, has signed an agreement with ISRO for technology transfer and

a contract for supply of spacecraft component.

Telangana, Maharashtra Sign Agreement On Godavari Projects

The CM of Telangana and Maharashtra has signed a pact for construction of irrigation projects across Godavari river, ending the inter-state dispute. This will pave way for construction of three barrages on Godavari and its tributaries Penganga and Pranahita.

CMFRI inks pact with varsity to boost marine life research

The Central Marine Fisheries Research Institute (CMFRI) is keen on boosting its research activities in marine biodiversity, with a special focus on the Gulf of Mannar.

India and Fiji join hands for Air Services agreement

The Union Cabinet chaired by the Prime Minister Narendra Modi has given its approval for signing of new Air Services Agreement (ASA) between India and Fiji.

India, Germany sign pact on vocational training

India and Germany has signed an agreement that aims to foster conditions that will help create and improve workplace-based vocational training in India's industrial clusters.

Ministry of Civil Aviation, Govt of Maharashtra and AAI sign MOU on Regional Connectivity Scheme

The Ministry of Civil Aviation, State Government of Maharashtra and Airports Authority of India has signed a tri-partite MoU, thereby kicking off the collaborative process of the three agencies coming together for successful launch of the Regional Connectivity Scheme.

Bajaj Finance ties up with India Post to facilitate two-wheeler purchase

Bajaj Finance Limited, a motorcycle finance company, has partnered with India Post to facilitate purchase of vehicles in Karnataka. The company signed a joint MoU with India Post and formally announced special arrangement which enables prospective buyers to get information on various 2-wheeler loan schemes as well as special loan offers to the people.

Railways to partner with Google for showcasing its heritage

Google has agreed to partner with Railways to digitise its heritage assets and help create a digital repository for universal online access free of cost, said a senior Railway Ministry official.

GAIL signs MoU with Bloom Energy for fuel cell power generation

State-run GAIL (India) Ltd. has signed a MoU with California-based Bloom Energy for developing natural gas-based fuel cell

power generation. The agreement was signed by GAIL chairman and managing director B C Tripathi and Bloom Energy chief executive K R Sridhar.

BSNL and Microsoft India join hands for effective connectivity and telecom solutions

Bharat Sanchar Nigam Limited (BSNL) inked pact with Microsoft India to offer telecom and IT solutions for big businesses promoting the demand for IT and cloud services. MoU will assist audio and video needs of the BSNL's enterprise customers and government organizations.

China's high-speed train maker launches operation in India

China CRRC Corporation Ltd., the country's largest high-speed train maker has announced that its first joint venture plant in India in India with USD 63.4 million investment has started operations.

Indian Railways ink pact with Maharaja Sayajirao University

Ministry of Railways has decided to send its officers for acquiring MBA degree to the National Academy of Indian Railways (NAIR) in Vadodara which is the apex level training institute of Indian Railways for imparting training to Railway Officers, has signed an MoU with Maharaja Sayajirao University, Vadodara for award of MBA degree in specific Railway fields to railway probationary officers belonging to Indian Railway Accounts Service (IRAS), Indian Railway Personnel Service (IRPS) and Indian Railway Store Service (IRSS).

COMMITTEES

Justice Dhingra hints at irregularities in Haryana land deals case

Justice S.N. Dhingra has submitted an 182-page report to the Haryana government on granting of Change of Land Use (CLU) licences in four villages of Gurgaon during the rule of the previous Congress government, hinting at irregularities.

Govt. constitutes expert committee to study silt in Ganga in Bihar

The Government has constituted an expert committee of 4 members to study the silt in the river. The Centre will send a team to Bihar to study silt in river the river. Member of Ganga Flood Control commission A .K. Sinha has been made Chairman of the committee.

Madhukar Gupta committee submits its report to Centre

Madhukar Gupta committee was formed to review security at India-Pakistan border, the report running close to thousand pages submitted its report to Home Minister Rajnath Singh.

Finance Ministry sets up panel to suggest steps to promote card payments

Union Finance Ministry Arun Jaitley has set up a committee to consider incentives such as cash back schemes and tax rebates for promoting card and digital payments in a step towards discouraging cash transactions. With an aim to discourage cash transactions, the Finance Ministry has set up this high-level committee to suggest steps to promote card payments through incentives like tax rebates and cash back schemes.

The 11-member committee, headed by former Finance Secretary Ratan P Watal.

Abhinav Bindra to Head NRAI Review Committee on Rio Debacle

India's first and only individual Olympic gold-medallist Abhinav Bindra was named Chairman of a five-member review committee to probe the shooters' Rio Games debacle but has recused himself from questioning them as he was himself a part of the team.

Task Force on Poverty filed report

Task force headed by NITI Aayog Vice-Chairman Arvind Panagariya to prepare a road map for elimination of poverty submitted its report to the Prime Minister's Office (PMO). It has suggested setting up a committee to identify people Below Poverty Line (BPL). It also suggested participation from states in defining the BPL population.

Committee on use of Pellet Guns submitted its report

TVSN Prasad committee constituted to look into the alternatives to pellet guns submitted its report to Home Secretary Rajiv Mehrishi. As per reports, the committee was not in favour of completely removal of the pellet guns in the Kashmir Valley but suggests that it should be replaced with polymer, rubber and paper bullets.

Sinha committee constituted to study silt in river Ganga in Bihar

Union Government constituted an expert committee to study slit in river Ganga in Bihar. The four-member committee will be headed by Member of Ganga Flood Control commission AK Sinha.

NEW APPOINTMENTS

Amul MD Sodhi appointed on board of India Post Payment Banks

Amul Managing Director (MD) R S Sodhi has been appointed as independent director on the board of India Post Payment Banks

(IPPB) - the payments bank arm of postal department.

105-yr-old Kunwar Bai made 'Swachh Bharat Abhiyan' mascot

105-year-old Kunwar Bai, who was felicitated by PM Narendra Modi for building toilet by selling off her goats, has been chosen as the 'Swachh Bharat Abhiyan' mascot. PM Modi felicitated her to mark 'Swachhta Diwas' on September 17.

Jim Yong Kim heads for second term as World Bank president

Jim Yong Kim is heading for another five-year term as president of the World Bank. Kim, 56, has focused the World Bank's programs to reduce extreme poverty. Kim's first term ends on June 30, 2017.

Hiroshi Nakagawa takes over as Chairman of Isuzu Motors India

Japanese automobile maker Isuzu has announced top level changes in its Indian operations with Hiroshi Nakagawa taking over as the Chairman of Isuzu Motors India (IMI) with immediate effect.

V Shanmuganathan sworn in as Arunachal Governor

Meghalaya Governor V Shanmuganathan was sworn in as the governor of Arunachal Pradesh. Chief Justice of the Gauhati High Court Justice Ajit Singh administered the oath of office to Shanmuganathan in the presence of Chief Minister Pema Khandu.

Aleksander Ceferin named new UEFA president

Union of European Football Associations (UEFA) elected Aleksander Ceferin to succeed Michel Platini as president. The 48-year-old succeeds former France international Michel Platini, who resigned after being banned from all football activity.

Anoop K Sharma new CMD of Shipping Corporation

Anoop Kumar Sharma has taken charge of the post of CMD, Shipping Corporation of India (SCI) with effect from September 12, 2016 for a period of three years.

Jyoti Prasad Rajkhowa removed as Arunachal Pradesh governor

Governor of Arunachal Pradesh Jyoti Prasad Rajkhowa was removed from the post. President Pranab Mukherjee has directed that Shri J.P. Rajkhowa to put his papers from the post of Governor of Arunachal Pradesh.

Pakistan appoints Wasim Bari as manager of National cricket team

Former Pakistan Test captain Wasim Bari has been appointed as

the new manager of the national team for the coming 'home' series against the West Indies in the UAE.

IDBI AMC appoints Dilip Mandal MD & CEO

Dilip Kumar Mandal has been appointed managing director (MD) & chief executive officer (CEO) of IDBI Asset Management Company (AMC). Prior to joining IDBI AMC, Mandal was chief general manager & zonal head of retail banking group, IDBI Bank.

Syndicate Bank appoints new Director

Jayant Purushottam Gokhale has been appointed director of Syndicate Bank. The Centre has nominated Gokhale as part-time non-official director under the chartered accountants category for a period of three years.

O.P. Kohli sworn in as MP Governor

Senior Bharatiya Janata Party (BJP) leader Om Prakash Kohli has been sworn in as the new governor of Madhya Pradesh (MP). Acting Chief Justice of Madhya Pradesh High Court Rajendra Menon administered the oath.

V K Sharma gets additional charge as LIC chairman

V K Sharma, who is currently one of the two managing directors at Life Insurance Corporation of India (LIC), has taken additional charge as Chairman, LIC of India.ii. Sharma joined LIC in the year 1981 as a Direct Recruit Officer.

Narayana Murthy named Director of RCI, DRDO

BHVS Narayana Murthy, an expert in Avionics has been appointed as Director, Research Centre Imarat (RCI), Defence Research Development Organisation (DRDO), Hyderabad.

Vidya Balan Brand Ambassador of Samajwadi Pension Yojana

Bollywood actress Vidya Balan appointed as brand ambassador of the ambitious Samajwadi Pension Yojana by Uttar Pradesh government.

Bakytzhan Sagintayev appointed as the Prime Minister of Kazakhstan

Bakytzhan Sagintaev appointed as Prime minister of Kazakhstan by Kazakhstan President Nursultan Nazarbayev.

Ex-IAS officer J Satyanarayana appointed part-time UIDAI chief

Former IAS officer J Satyanarayana has appointed as part-time chairperson of Unique Identification Authority of India (UIDAI).

Anuradha Rao is MD, CEO of SBI Mutual Fund

SBI Mutual Fund has appointed Anuradha Rao as its Managing

Director and Chief Executive. Prior to this, Rao was Deputy Managing Director at SBI handling New Business Portfolio.

P Kumaran appointed as the next Ambassador of India to the State of Qatar

Shri P Kumaran Indian Foreign Service, presently Joint secretary in the Ministry, has been appointed as the next Ambassador of India to the State of Qatar.

Volvo Auto India hires Nalin Jain as CFO

Luxury carmaker Volvo Auto has announced the appointment of Nalin Jain as the new Chief Financial Officer and Jyoti Malhotra as the Director, Sales, Marketing and PR for India operations.

CK Asnani assumes charge as CMD of Uranium Corporation of India Limited

CK Asnani on has assumed charge as the Chairman and Managing Director (CMD) of Uranium Corporation of India Limited (UCIL), an undertaking of the Department of Atomic Energy.

Henkel elevates Shilip Kumar as president of its India business

German consumer giant Henkel has elevated Shilip Kumar as president of its India business. He will succeed Jeremy Hunter, who led the Indian market for over five years, and has now moved to Shanghai as president - Henkel China.

Satbir Singh appointed as next Ambassador of India to Algeria

Satbir Singh, presently Additional Secretary in the Ministry has been appointed as the next Ambassador of India to the People's Democratic Republic of Algeria.

Religare Enterprises appoints Sunil Godhwani as CEO

Religare Enterprises Ltd has appointed Sunil Godhwani chief executive for the remaining period of his tenure. The decision was taken at the company's annual general meeting (AGM), which was presided over by Malvinder Mohan Singh, non-executive chairman, Religare Enterprises.

John Abraham is Arunachal Pradesh's new brand ambassador

Bollywood star actor John Abraham has been roped in as a brand ambassador for Arunachal Pradesh Tourism. John Abraham, who loves football, adventure sports, biking is the perfect fit for the state.

Urjit Patel takes over as RBI governor

Urjit Patel has assumed charge as the 24th Governor of the Reserve Bank of India (RBI). He succeeds Raghuram Rajan, whose 3-year term came to end on September 4.

UK appoints ambassador to Iran for first time since 2011

The United Kingdom (UK) has appointed an ambassador to Iran for the first time since 2011, as part of its aims for more productive co-operation. Nicholas Hopton, a former British ambassador to Qatar and Yemen, will take up the role.

Mukund Choudhari assumes charge as MOIL CMD

Mukund Chaudhari has taken over as Chairman and Managing Director (CMD) of (Manganese Ore India Limited) MOIL, a city-based miniratna company. The MOIL, which is under the administrative control of the Ministry of Steel, is the largest producer of Manganese Ore in the country.

Kerala appoints Sachin as brand ambassador for anti-liquor campaign

Legendary Cricketer Sachin Tendulkar has been appointed as brand ambassador for anti- liquor and drug campaign by the Kerala government.

Sakshi Malik appointed Wrestling Director of Rohtak University

Rio Olympics bronze medalist Sakshi Malik has been appointed as Wrestling Director at Maharshi Dayanand University in Rohtak.

Bangladesh hire former Sri Lankan cricketer Thilan Samaraweera as batting guru

Bangladesh has named former Sri Lankan cricketer Thilan Samaraweera as their batting consultant for next month's home series against England. Samaraweera's appointment came a day after former West Indies great Courtney Walsh agreed a three-year term to become the specialist pace bowling coach of the Bangladesh Cricket Board (BCB).

K K Aggarwal elected National President of IMA

Cardiologist K K Aggarwal has been unanimously elected as the National President of the Indian Medical Association for the year 2016-17.

Deep Kumar Upadhyay re-appointed as Nepal's envoy to India

Deep Kumar Upadhyay was re-appointed as Nepal's ambassador to India. The meeting held at Prime Minister's office in Singha Durbar, Kathmandu, proposed Upadhyay for Nepali ambassador to India and Chief Secretary Lila Mani Poudel for China.

Michel Temer sworn in as new Brazil president

Michel Temer, Brazil's former vice president, has been sworn in as the country's new president, a few hours after the country's Senate voted to remove Dilma Rousseff from office.

Anuradha Rao appointed as MD, CEO of SBI Mutual Fund

Sbi Mutual Fund has appointed Anuradha Rao as its Managing Director (MD) and chief executive. Prior to this, Rao was Deputy Managing Director at Sbi handling New Business Portfolio.

Ashok Chawla is new Chancellor at Teri university

The Energy and Resources Institute (Teri) has officially appointed former Finance Secretary Ashok Chawla as the new Chancellor of Teri university. With this, Teri ended its last association with former Chancellor and Head R.K. Pachauri.

Aishwaryaa Dhanush appointed U.N. Women's advocate for Gender Equality

Noted filmmaker and actor Rajinikanth's daughter Aishwaryaa Dhanush was appointed United Nations Women's Advocate for Gender Equality and Women's Empowerment in India.

State Bank of Travancore appoints new Chief GM Ashok Kumar Pradhan

Ashok Kumar Pradhan has taken over as its Chief General Manager of State Bank Of Travancore. He succeeds S Adikesavan.

Wipro's chief learning officer Abhijit Bhaduri quits

Abhijit Bhaduri, chief learning officer of Wipro has resigned. Bhaduri, will start his own executive coaching company. Bhaduri is the man behind many of Wipro's initiatives like global 100 program.

Amit Chandra inducted as non-executive director of Tata Sons

Tata Sons, the holding company of the Tata Group of companies, has appointed private equity firm Bain Capital's Managing Director Amit Chandra as the non-executive director.

AM Naik names SN Subrahmanyan as next Larsen & Toubro chief

Indian multi-national conglomerate Larsen & Toubro's group named S N Subrahmanyan as the Managing director (MD) and chief executive officer (CEO) of India's largest infrastructure engineering company from October first.

Punit Misra named CEO of Zee Entertainment domestic broadcast biz

Zee Entertainment Enterprises has appointed Punit Misra as Chief Executive Officer (CEO) for its domestic broadcast business. Misra's appointment will come to effect from October 1 will report to Zee Entertainment Enterprises Managing Director and Chief Executive Officer Punit Goenka.

Sharmila Tagore appointed as a new member of the BCCC

Film actress Sharmila Tagore, theatre activist Arundhati Nag and film studies academician Ira Bhaskar have been appointed new members of Broadcasting Content Complaints Council (BCCC), the self-regulatory body which hears complaints against TV content.

New ED appointed for Corporation Bank

The Central government has appointed Gopal Murli Bhagat as Executive Director of Corporation Bank for a period of three years. Prior to his elevation, Bhagat was General Manager with Bank of India.

Deepika Padukone is world's 10th highest paid actress, Indian Psychiatric Society's new Brand Ambassador

Forbes magazine ranked out the world's highest paid actresses and Hunger games star Jennifer Lawrence has topped the list for the second time in a row. Indian star Deepika Padukone is also among the top 10 highest-paid actresses in the world.

Navtej Sarna tipped to be next Indian envoy to US

India's high commissioner to UK, Navtej Sarna, is likely to take over from Arun Singh as India's ambassador to the US. Singh, who steered India's Washington outreach for the past year-and-a-half, is scheduled to retire at the end of the month.

India's Oscar entry for 2017 to be picked by Ketan Mehta

The Film Federation of India (FFI) has kick started the process to cherry pick the film, which will officially represent India at the 89th Academy Awards next year. Ketan Mehta has been approached to head the 17-member jury which comprises technicians and artistes within the film industry.

P D Gupta appointed VC of Homi Bhabha National Institute

Eminent scientist P D Gupta was appointed as Vice Chancellor of Mumbai-based Homi Bhabha National Institute (HBNI). He has been appointed to the post for five years, an order issued by Department of Personnel and Training.

Badnore sworn in as new Punjab governor

V P Singh Badnore has sworn as the new Punjab Governor and also as Administrator of Chandigarh Administration. Punjab and Haryana High Court Chief Justice S J Vazifdar administered the oath of office and secrecy to Badnore at Punjab Raj Bhawan in Chandigarh.

Bharat Electronics CFO resigns

PR Acharya has resigned as the Director Finance and CFO (KMP) of Bharat Electronics Ltd with effect from August 19. He has also

stepped down from the Board of the company, citing personal reasons.

Brajendra Navnit, V Sheshadri appointed as Joint Secretaries in PMO

Senior IAS officers Brajendra Navnit and V Sheshadri have been appointed as Joint Secretaries in PMO as part of massive mid-level reshuffle.

Indo-Canadian Sikh MP becomes Canada's 1st woman House leader

Indo-Canadian Sikh MP Bardish Chagger has been named as the new Leader of the government in Canada's House of Commons, becoming the first woman to hold the post in the country's history.

Jagdish Mukhi Sworn In As Lieutenant Governor Of Andaman And Nicobar

Senior BJP leader Jagdish Mukhi on Monday assumed office as the 12th Lieutenant Governor of the union territory of Andaman and Nicobar Islands. Mukhi took over from Lt General AK Singh (Retd).

Catholic Syrian Bank MD quits

Anand Krishnamurthy, managing director and chief executive of Catholic Syrian Bank, has resigned, a year after taking over the posts.

Ashok Chawla to take over as YES Bank non-executive chairman

Former Competition Commission of India (CCI) head Ashok Chawla will take over as Non-Executive Part-time Chairman of YES Bank from October as the lender has received approval from the Reserve Bank for this appointment.

Vistara appoints Deepika Padukone as brand ambassador

Vistara, is an Indian domestic airline based in Gurgaon has announced that Bollywood actor Deepika Padukone will be their new brand ambassador.

Najma Heptulla sworn in as Governor of Manipur

Former Union Minister Najma Heptulla was sworn-in as the governor of Manipur. Heptulla, the 18th governor of the state, replaced Shanmuganathan who was holding the dual charge of Governor of Manipur and Meghalaya.

Sunil Mittal re-appointed Chairman of Bharti Airtel for 5 yrs

Sunil Bharti Mittal has been re-appointed as the Chairman of telecom giant Bharti Airtel for another 5 year, with effect from

October 1, 2016. Sunil Bharti Mittal has been re-appointed as the Chairman of the company for further term of five years with effect from October 1, 2016.

Yogeshwar Sangwan concurrently accredited as the Ambassador of India to Georgia

Shri Yogeshwar Sangwan, presently Ambassador of India to the Republic of Armenia, has been concurrently accredited as the Ambassador of India to Georgia, with residence in Yerevan (Armenia).

OBITUARIES

World's oldest cricketer Lindsay Tuckett passes away

World's oldest cricketer, Lindsay Tuckett, passed away in Bloemfontein at the age of 97. Tuckett represented South Africa in 9 Test matches against England between 1947 and 1949.

Uzbekistan's President Islam Karimov dies

Uzbek President Islam Karimov has died after suffering a stroke at the age of 78. Islam Abdug'aniyevich Karimov was the first President of Uzbekistan, in office from 1990 to 2016.

Noted Assamese poet Nalini Dhar Bhattacharyya dies at 95

Noted Assamese poet, literary critic and author and winner of the Sahitya Akademi award Nalinidhar Bhattacharyya passed away in Guwahati. Bhattacharyya, aged 95, was suffering from age-old ailments.

Australia's Oldest Surviving Test Player Dies

Australia's oldest surviving Test cricketer, Len Maddocks, has passed away aged 90. Maddocks, a batsman and wicket-keeper, played seven Tests for Australia between 1954 and 1956, and managed the Australian cricket team on its 1977 tour of England.

Prize-winning author Joyce Carol Thomas dead at 78

Joyce Carol Thomas, a prize-winning children's author and champion of multiculturalism, has died at the age of 78.

Actor Jon Polito passes away

Jon Polito, best known for his frequent presence in Coen Brothers films, died of cancer in Duarte, California. The actor had been in more than 100 films, TV shows and Broadway plays.

Bangladesh hangs Islamist tycoon Mir Quasem Ali

In Bangladesh, Jamaat-e-Islami leader and media tycoon, Mir Quasem Ali was executed last night for war crimes committed during the country's 1971 Liberation War. Ali, widely considered

as the top financier of the Jamaat, was hanged at the high-security Kashimpur Central Jail in the outskirts of Dhaka.

Former Italian PM Carlo Azeglio Ciampi dies

Former Italian president, prime minister and central bank governor Carlo Azeglio Ciampi has died at the age of 95.

US playwright Edward Albee dies aged 88

Legendary playwright Edward Albee, widely considered one of the greats of his generation, has died at the age of 88. A three-time Pulitzer Prize winner, he was arguably America's greatest living playwright after the deaths of Arthur Miller and August Wilson in 2005.

Mathrubhumi former editor K K Sreedharan Nair passes away

Mathrubhumi former editor K K Sreedharan Nair passed away. He was 86. The end came at a private hospital in Kochi. He started his career in Journalism as a sub-editor in Mathrubhumi in 1953.

Mumbai trade Union leader Sharad Rao passes away

Veteran trade union leader Sharad Rao passed away in Mumbai. He was 78. Rao is acknowledged for his role in mobilising the work force in both the organised and unorganised sectors.

Famous art historian and Painter Dinanath Pathy passes away

Famous painter, writer and art historian Dinanath Pathy passed away following a cardiac arrest at a hospital in Bhubaneswar. He was 74.

Former international umpire Subrata Banerjee dies

Subrata Banerjee, the former international umpire, died at the age of 71 in Kolkata. Banerjee officiated in men's and women's international matches, as well as in age group tournaments, and stood in a women's Test match.

AWARDS

Guru Kelucharan Mohapatra Awards presented

The five-day-long 22nd Guru Kelucharan Mohapatra Award Festival concluded at the Rabindra Mandap auditorium with the presentation of the prestigious awards named after the legendary Odissi artists.

The Guru Kelucharan Mohapatra Award 2016 for lifetime achievement was presented to Jharana Das (Cinema) and Guru Kishore Kumar Mohanty (Odissi).

Two India-Born MIT Scientists Win Prestigious US Awards

Two Indo-American scientists from Massachusetts Institute of

Technology (MIT) have been conferred with prestigious awards for their path-breaking inventions. Nasik-born Ramesh Raskar, an imaging scientist and inventor at MIT, has been awarded the \$500,000 Lemelson-MIT Prize 2016 & Dinesh Bharadia, the researcher at MIT, won the Paul Baran Young Scholar Award of the US-based Marconi Society.

Ewan McGregor to receive Humanitarian award

Actor Ewan McGregor will receive the Britannia Humanitarian Award at the British Academy Britannia Awards in California next month.

Sri Sri Ravi Shankar to be awarded by Jewish rights group

Spiritual leader Sri Sri Ravi Shankar will be honoured with a humanitarian award by a prominent Jewish human rights organisation for promoting human dignity, interfaith relations and tolerance among people. The Art of Living founder will be conferred with Simon Wiesenthal Centre's highest honour 'the Simon Wiesenthal Humanitarian Laureate' at a ceremony in New Delhi.

Jharkhand Awarded 45th Skoch Merit Award

Jharkhand was awarded the 45th Skoch Merit Award and Skoch Smart Governance Gold Award, 2016 which was held in Hyderabad. The state clinched the 'Mukhyamantri Jan Samvad Centre' award after it came into the top hundred among many ambitious projects presented by different states.

Award for KVGB insurance effort

Dharwad-headquartered Karnataka Vikas Grameena Bank has bagged four awards for inclusive insurance for 2016 from Skoch Group. S Ravindran, chairman, received the award from Sameer Kochhar, chairman of Skoch Group, in Hyderabad.

Indian-American physician to receive National Humanities Medal

Indian-American physician-author Abraham Verghese, whose work has emphasised empathy in medicine, has been selected for the prestigious 2015 National Humanities Medal.

Mumbai-based writer wins FON South Asia Short Story Award

Writer Meghna Pant will be honoured with Kumaon Literary Festival's FON (Fellows of Nature) South Asia Short Story Award in Nature writing in October for her short story "People of the Sun."

Subramanian Swamy was awarded 'Tamil Ratna' in US

BJP leader Subramanian Swamy has been honoured with 'Tamil Ratna' award by a body of Tamil diaspora in New York for

fighting corruption and working for more transparency in the functioning of the government.

Odisha bags 9th Global Agriculture Leadership Award 2016

Odisha has bagged 9th Global Agriculture Leadership Award 2016 at the National Level gathering of important stake-holders in agriculture development at the Agriculture Leadership Summit at Hotel Taj Palace, New Delhi.

Zeliang receives Pangkor Dialogue Award in Malaysia

Nagaland Chief Minister T R Zeliang has received 'Pangkor Dialogue Award 2016' in Malaysia for the efforts made by the people of the state for environmental preservation and promotion.

Filipino revenge drama wins best picture at the world's oldest film festival

A revenge drama Ang Babaeng Humayo (The Woman Who Left) on 10 September 2016 won the Golden Lion for Best Film Award at the 73 Venice Film Festival.

Thithi wins Best Film honour at 1st BRICS Film Festival

Raam Reddy's Kannada film Thithi was conferred the Best Film award by Union Minister of Information and Broadcasting Minister M. Venkaiah Naidu at the closing ceremony of the 1st BRICS Film Festival. South African actor Thabo Rametsi won the Best Actor (Male) award for his role in Kalushi, Russian actress Yulia Peresild was given the Best Actor (Female) honour for her film "The Battle for Sevastopol" and Chinese director Huo Jianqi was announced as the Best Director for helming Indo-Chinese co-production film, Xuan Zang.

Filmmaker K G George to be Honoured With J C Daniel Award

National award winner and veteran director K G George has been selected for the JC Daniel award 2015, Kerala Government's highest honor for outstanding contribution to Malayalam cinema.

Nawazuddin Siddiqui, Tannishtha Chatterjee win Best Actors award: LIFFI

Nawazuddin Siddiqui won the Best Actor award for his role in 'Manjhi-The Mountain Man'. Tannishtha Chatterjee won the award for her role in 'Rough Book'. Anant Mahadevan won the Best Director honour at the debut edition of the Lonavla International Film Festival India (LIFFI).

Dr Hrushikesh Mallick to get prestigious Sarala Award-2016

Noted Odia poet Dr Hrushikesh Mallick will be honoured with the 37th edition of prestigious Sarala Award for his outstanding poetry. The annual award carrying a cash prize of Rs 5 lakh and a

citation would be conferred on Mallick for his poetry work "Jeje Dekhi Nathiba Bharat".

JSS Malappuram wins Unesco literacy award

The Jan Shikshan Sansthan (JSS), Malappuram, has won the Unesco Confucius Prize for Literacy. The award has been conferred on the JSS in recognition of its literacy-linked skill development activities among the underprivileged in rural areas.

India Post launches commemorative stamp on Mother Teresa

IndiaPost has released a commemorative postage stamp on Mother Teresa to celebrate the canonisation of her as saint, Mumbai. Union Minister of State for Communications Manoj Sinha unveiled the postage stamp.

Bezwada Wilson, TM Krishna Win Ramon Magsaysay Award

Karnataka-born Bezwada Wilson, a prolific campaigner for eradication of manual scavenging in India, and Carnatic singer T M Krishna from Chennai, were chosen for the prestigious Ramon Magsaysay Award for 2016.

Jackie Chan to receive lifetime achievement Oscar

Martial arts expert and actor Jackie Chan will receive a lifetime achievement Oscar. The announcement was made by the Academy of Motion Picture Arts and Sciences. Chan made his movie debut at the age of 8.

Kiran M Shaw appointed 'Knight of Legion of Honour' by France

Biocon chairperson and managing director (MD) Kiran Mazumdar Shaw has been appointed 'Chevalier de l'Ordre National de la Legion d'Honneur' (Knight of the National Order of the French Legion of Honour) for her outstanding contribution and dedication to Biosciences and Research field globally.

Irrfan Khan honoured with Entertainer of The Year award

Actor Irrfan Khan was honoured with the Entertainer of the Year award by CNBC. He was felicitated by Finance Minister Arun Jaitley. The actor has been praised for his performance in movies like Piku, Jurassic World and Talvar which released last year.

Dogri writer Padma Sachdev gets Saraswati Samman

Poet and novelist Padma Sachdev was awarded the prestigious Saraswati Samman for the year 2015 for her autobiography 'Chitt-Chete' in Dogri language. She was felicitated by Delhi's Lt Governor Najeeb Jung in New Delhi.

CRPF to appoint PV Sindhu as Commandant and brand ambassador

Country's largest paramilitary force Central Reserve Police Force India (CRPF) has decided to appoint Olympic silver medalist PV

Sindhu as it's brand ambassador and bestow the honorary rank of Commandant on the ace badminton player.

Four athletes get Rajiv Gandhi Khel Ratna award

President Pranab Mukherjee today conferred the country's highest sporting honour Rajiv Gandhi Khel Ratna award to Rio medalists PV Sindhu, Sakshi Malik along with gymnast Dipa Karmakar and ace shooter Jitu Rai.

Lalita Babar, chessplayer Shardul Gagare to get SJAM awards

Maharashtra's sixth Chess GM Shardul Gagare, and steeplechase specialist Lalita Babar, who finished a creditable 10th in the Rio Olympics, have been chosen for the Sports Journalists Association of Mumbai's (SJAM) Golden Jubilee Annual Awards 2016. Ahmednagar-based Gagare will receive the Sportsman of the year award and while the Satara-based Lalita, will receive the Sportswoman of the year award.

Ronaldo wins UEFA Best Player in Europe award

Real Madrid and Portugal superstar Cristiano Ronaldo has won the UEFA Best Player in Europe award for the second time. Ronaldo, 31, claimed the prize ahead of his club team-mate Gareth Bale and Atletico Madrid star Antoine Griezmann.

Satheesh Reddy conferred first IEI-IEEE award

G. Satheesh Reddy, Scientific Adviser to the Defence Minister and DRDO's DG (Missiles & Strategic Systems), was conferred the first IEI-IEEE Award for engineering excellence 2015. The award is in recognition of his 'significant national contributions towards missiles and aerospace technologies'.

Dhyan Chand Lifetime Achievement Award will be conferred with the Jharkhand Durgung

Dhyan Chand Lifetime Achievement Award will be conferred with the Jharkhand Durgung Former Olympian Silvanus Durgung Major Dhyan Chand Lifetime Achievement Award will be rewarded.

Telangana Aarogyasri Trust bags FICCI award

The GPS-enabled mobile app of the Telangana Aarogyasri Healthcare Trust bagged this year's Federation of Indian Chambers of Commerce & Industry (FICCI)'s healthcare excellence award. It is the second award for the app having secured the 'Elite Smart Healthcare Conclave' for being the most important mobile app in the nation.

2 Indian-American women named White House fellows

Two Indian-American women have been selected for the prestigious White House Fellow programme that offers first

hand experience of working at the highest levels of the US federal government. Astrophysicist Anjali Tripathi from California and physician Tina R Shah from Chicago are among the 16 White House Fellows appointed from across the nation for the year 2016-17.

Asian Filmmaker award posthumously for Kiarostami at Busan

Late Iranian director Abbas Kiarostami has been selected for the Asian Filmmaker of the Year Award at the Busan International Film Festival beginning October 6.

Kamal Haasan to get prestigious French honour

Famous Actor Kamal Haasan will be awarded the Chevalier de L'Ordre Arts et Lettres (The Knight of the Order of Arts and Letters) by the French government. The Order is part of France's premier award, the Legion of Honor.

IOA chief Ramachandran awarded the Olympic Order

Indian Olympic Association (IOA) President N. Ramachandran was awarded the Olympic Order for his outstanding services to the Olympic movement. The Olympic Order is the highest award of the Olympic Movement.

AP announces Rs 3 cr cash award, Group I cadre job for Sindhu

The Andhra Pradesh (AP) Cabinet has decided to felicitate the Olympic badminton star PV Sindhu with Rs. 3 crore reward in cash, a 1,000 sq yard site in the new capital city of Amaravati and a Group I cadre job in the State.

DEFENCE NEWS

India and United States start military venture with Exercise YUDH ABHYAS-2016

A joint military training exercise of Indian and US Armies, Exercise YUDH ABHYAS 2016, commenced at Chaubattia, Uttarakhand. Both sides will jointly train, plan and execute a series of tactical drills for neutralisation of likely threats that may be encountered in UN peace keeping operations.

US Navy reveals interior of \$4.4 bn Zumwalt destroyer

United states (US) Navy has demonstrated the interiors of Zumwalt destroyer. The 186-metre-long ship is equipped with stealth features and a gun system that can launch 600 rocket-powered projectiles at targets more than 110 kilometres away.

Rajnath Singh commissions offshore patrolling vessel Sarathi in Goa

Union Home Minister Rajnath Singh has been commissioned the offshore patrolling (OPV) vessel, Sarathi, at Goa Shipyard Ltd

(GSL), the defence shipyard in south Goa. This vessel is the 3rd in the series of six OPVs built by the shipyard for Indian Coast Guard.

India's light utility helicopter maiden flight successful

Hindustan Aeronautics Limited (HAL) has successfully completed the test flight of indigenous Light Utility Helicopter (LUH) Bengaluru. The HAL LUH is a 3-tonne helicopter exclusively built for the Indian Army and the Indian Air Force to replace the aging fleet of Cheetah and Chetak helicopters. It is a light, single-engine helicopter that is powered by the Safran HE Ardiden-1U engine.

India Kazakhstan Joint Exercise "Prabal Dostyk -16"

India, Kazakhstan joint bilateral military exercise "Prabal Dostyk -16" held in Karaganda region of Kazakhstan. The 14-day exercise was a significant step towards fostering military as well as diplomatic ties between both countries. 'Prabal Dostyk' means 'Robust Friendship'.

GRSE hands over fast attack craft 'Tihayu' to Indian Navy

The Water Jet Fast Attack Craft (WJFAC), 'Tihayu' built by Garden Reach Shipbuilders and Engineers Limited (GRSE), Kolkata was handed over to the Indian Navy. The warship was handed over by Rear Admiral (Retd) A.K. Verma, Chairman and Managing Director, GRSE to the Commanding Officer of the ship Cdr. Ajay Kashov.

First military heritage website launched

India's first military heritage website, coloursofglory.org was launched by Glory Foundation at Chennai. A veteran of the 1971 Indo-Pak war, city based Captain D.P.Ramachandran who is also the executive trustee of the foundation declared the war heroes of South India held great significance to the history of India.

China, Russia to hold joint naval exercises in SCS

China and Russia will hold routine joint naval exercises in the South China Sea. This is being done after when recently court in Hague ruled stated that China does not have historic rights to the SCS. But China rejected the ruling and refused to participate in the case.

3-day meeting between BSF & Border Guard Bangladesh (BGB) begins in Agartala

A three-day meeting between Border Security Force (BSF) and Border Guard Bangladesh (BGB) held in Agartala to sort out problems along the border. The meeting is a 21-member BGB delegation, led by Brig Gen Mohammad Habibul Karim.

Navy puts its might in massive search on for missing IAF plane

Eastern Naval Command (ENC) has deployed two P8i Long Range Maritime Patrol Aircraft with advanced electro-optics and radars, two Dornier aircraft and twelve ships with integral helicopters to join the search operations initiated to locate the Indian Air Force AN-32 transport aircraft reported missing approx 300 km due East of Chennai on Friday morning.

North Korea test fires new ballistic missile

North Korea test fired a new ballistic missile. South Korea's military said, it was launched from a submarine in the Sea of Japan, off North Korea's eastern coast.

RANKS & REPORTS

PepsiCo's Indra Nooyi only Indian-origin woman in Fortune list

PepsiCo CEO and Chairman Indra Nooyi was ranked 2nd on the list of Fortune's 51 Most Powerful Women list. The list is topped by Mary Barra, CEO and Chairman of General Motors.

SBI's Bhattacharya, ICICI's Kochhar among Fortune's 50 most powerful women outside US

India's top women bankers, SBI chief Arundhati Bhattacharya, ICICI head Chanda Kochhar and Axis Bank CEO Shikha Sharma, are among the 50 most powerful women based outside the US, according to a list by Fortune which is topped by Banco Santander's boss Ana Botn. Bhattacharya, 60 is ranked second on the list, while Kochhar comes in on the fifth spot and Sharma is on the 19th position.

Mandi, Sindhudurg Emerge Cleanest Districts In India

Mandi in Himachal Pradesh and Sindhudurg in Maharashtra have emerged the cleanest districts in India according to a report released in New Delhi by Drinking Water and Sanitation Minister Narendra Singh Tomar. A total of 22 hill districts and 53 plain areas were assessed under the Gramin Swachh Survekshan launched in May this year.

Sikkim cleanest state in India: Survey

Sikkim has been adjudged the cleanest state while Jharkhand comes last in the list of 26 states. Gujarat is ranked 14th in the survey conducted by National Sample Survey Office (NSSO). The results of survey carried out last year by National Sample Survey Office (NSSO) was released by Union Rural Development Minister Narendra Singh Tomar in New Delhi.

SRK, Akshay, Salman & Big B amid top 20 highest-paid global actors

The list published by Forbes magazine considers earnings from

June 2015, and featured Shah Rukh Khan and Akshay Kumar as the top two highest paid actors on 8th and 10th rank. The list also includes Salman Khan on 14th rank, which is followed by legend Amitabh Bachchan on 18th position. The list was topped by former WWE wrestler and present actor, Dwayne Johnson.

Five Indian companies ranked among world's 100 most innovative

Five Indian companies ranked among world's 100 most innovative, including Asian Paints, Hindustan Unilever, Tata Consultancy Services, Sun Pharma and Larsen & Toubro have been ranked among Forbes's list of 'The World's Most Innovative Companies'. The list is topped by Tesla Motors for the second consecutive year.

India is 7th wealthiest country, China second

India has figured among the top 10 wealthiest countries in the world with a total individual wealth of \$5,600 billion while the United States topped the chart. According to a report by New World Wealth, India was ranked 7th.

India ranks 39th in Asia Pacific on fixed broadband

India ranks a low 39th in terms of fixed broadband adoption among Asia-Pacific countries, with just 1.3% of its citizens subscribing to such a service in 2015, according to a study by the United Nations Economic and Social Commission for Asia and the Pacific (ESCAP).

India at 77th, Pakistan at 72nd and Bangladesh at 5th: World Risk Index – 2016

The World Risk Report 2016, published by the UNU Institute for Environment and Human Security (UNU-EHS) and Bundnis Entwicklung Hilft, analyses the role that infrastructure plays in shaping a country's disaster risk. India has been ranked 77th on the World Risk Index, topped by the Island state of Vanuatu.

India jumps 19 places in Logistics Performance Index

India jumped 19 places in the Logistics Performance Index to rank 35th in this year's list. The World Bank has recently released a Logistics Performance Index (LPI) 2016 report titled 'Connecting to Complete 2016'. The Logistics Performance Index Report is published by World Bank every two years. The logistics' list was topped by Germany. India has now been ranked 35 amongst 160 countries compared to rank of 54 in LPI 2014.

India down to 112th spot on World Economic Freedom Index

India has slipped by 10 positions to 112th, out of 159 countries and territories, as it "fared badly" across categories including

legal system and regulation, according to the Economic Freedom of the World: 2016 Annual Report. According to the report, Hong Kong has the highest level of economic freedom worldwide, followed by Singapore, New Zealand, Switzerland, Canada, Georgia, Ireland, Mauritius, the UAE, Australia, and the UK.

Priyanka Chopra among world's highest paid TV actresses

Priyanka Chopra has become the first Indian star to enter the Forbes list of highest paid television actresses in the world, after starring on American series "Quantico". Priyanka ranks eighth in the coveted list, which has retained American actress Sofia Vergara at the first position fifth year in a row.

SCIENCE AND TECHNOLOGY

World's 1st robotic eye operation performed in Britain

British surgeons have successfully performed the world's first robotic operation inside the eye, potentially revolutionising the way such conditions are treated. The procedure was carried out at John Radcliffe hospital in Oxford.

NASA launches first mission to collect samples from asteroid

The US space agency, NASA has launched its first mission to collect samples from an asteroid and return them to Earth in hopes of learning more about the origins of life. The unmanned spacecraft, known as OSIRIS-REx, blasted off from Cape Canaveral Air Force Station today.

ISRO tests Scramjet Rocket engine

The Indian Space Research Organisation (ISRO) successfully test-fired its Scramjet Rocket Engine. It will use oxygen from the atmosphere thereby reducing launch cost, from the spaceport of Sriharikota.

Isro's launches INSAT-3DR from Sriharikota

The Indian Space Research Organisation (ISRO) has launched GSLV rocket, which will carry the weather satellite INSAT-3DR from Sriharikota, Andhra Pradesh. The 2211-kg INSAT 3DR will be placed in an orbit 36,000 km above Earth.

Ghost snake species discovered in Madagascar

Scientists have discovered a new Ghost Snake Species of elusive, pale grey reptiles dwelling at the Ankarana National Park in Madagascar. The findings were published in the journal Copeia.

SpaceX Falcon 9 rocket, satellite destroyed in explosion

A SpaceX Falcon 9 rocket exploded on its launch pad during a test, destroying a commercial satellite that Facebook had

planned to use to extend Internet access in Africa. It was the second time in just over a year that SpaceX has lost a Falcon 9 rocket.

China Launches State-Owned Aircraft Engine Maker

China has set up a state-owned aircraft engine maker with registered capital of 50 billion yuan (\$7.5 billion), in the latest effort to develop home-grown, high-tech businesses to compete in international markets.

ISRO tests Scramjet Rocket engine

The Indian Space Research Organisation (ISRO) successfully test-fired its Scramjet Rocket Engine, which will use oxygen from the atmosphere thereby reducing launch cost, from the spaceport of Sriharikota.

Intel launches wireless Project Alloy headset for 'merged reality'

Software major Intel has unveiled a Virtual Reality headset to take on Oculus, HTC and Microsoft. This headset, called Project Alloy, will offer 'mixed reality' – bridging the gap between VR headsets.

INTERNATIONAL NEWS

World's longest bullet train network established in China

World's longest bullet train network length of 2000kms established by China Railway. Construction of the line started in December 2012. The line has 9 stations and trains run at a speed of up to 300 kph.

World's 1st robotic eye operation performed in Britain

British surgeons have successfully performed the world's first robotic operation inside the eye, potentially revolutionising the way such conditions are treated. The procedure was carried out at John Radcliffe hospital in Oxford.

World Bank and NDB agreed to strengthen cooperation especially in infrastructure

World Bank Group President Jim Yong Kim and New Development Bank President K.V. Kamath signed MoU to strengthen their cooperation in addressing global infrastructure needs in Washington D.C.

Mother Teresa is being declared saint by Pope Francis in Vatican City

Mother Teresa is being declared a saint by Pope Francis today at a canonisation ceremony in Vatican City. The canonization

comes on the eve of her 19th death anniversary. Once declared Saint, she will be known as Saint Teresa of Calcutta.

22-year-old Indo-Japanese crowned Miss Japan

A beauty queen with an Indian father and a Japanese mother was crowned Miss Japan. Priyanka Yoshikawa's tearful victory comes a year after Ariana Miyamoto faced an ugly backlash for becoming the first black woman to represent Japan.

US sign 38 billion dollars deal with Israel

United States (US) has signed a 38 billion dollars deal with Israel to provide the country with military assistance over a 10-year period. The deal is the largest such agreement the US has ever had with any country.

WHO certifies Sri Lanka malaria free

In a remarkable public health achievement, Sri Lanka was certified by WHO on having eliminated malaria, a life-threatening disease which long affected the island country. The World Health Organization is a specialized agency of the United Nations that is concerned with international public health.

BRICS Convention on Tourism held

The two-day long "BRICS Convention on Tourism" held at world heritage site Khajuraho in Madhya Pradesh. Union Culture Minister Mahesh Sharma inaugurated the convention. Delegations from the BRICS countries India, Brazil, Russia, China and South Africa participated in it.

U.S. Postal Service Honors Festival of Diwali with a Forever Stamp

The United States Postal Service (USPS) announced a new stamp commemorating Diwali, the Hindu festival of lights. Diwali, which falls between mid-October and mid-November, is depicted on the stamp with a lit diya oil lamp, a lamp traditionally used in many Hindu holidays. The stamp will first be issued on Oct. 5.

Pakistan to host 19th SAARC Summit on 9-10 November

Pakistan will host the 19th SAARC Summit on November 9 and 10 this year. The preparations for successful holding of the Summit at Islamabad are being made by Pakistan and in order to give impetus to the process of preparations, Foreign Secretary Aizaz Ahmad Chaudhry, inaugurated a SAARC Summit Cell at the Ministry of Foreign Affairs.

Colombia, FARC Rebels Reach Deal to End Half-Century War

Colombia's government and the country's biggest rebel group reached a historic deal for ending a half-century of hostilities in

one of the world's longest-running and bloodiest armed conflicts. President Juan Manuel Santos hailed the agreement with the Revolutionary Armed Forces of Colombia as an opportunity to turn the page on decades of political violence that has claimed more than 220,000 lives and driven more than 5 million people from their homes.

Toxic gas leak at Bangladesh fertiliser unit sickens 250; plugged

About 250 people, including children, have fallen sick and hundreds of residents have been evacuated from their homes after a toxic gas leak from a fertiliser unit in Bangladesh's port city of Chittagong.

Saarc finance ministers meet held in Islamabad

South Asian Association for Regional Cooperation (SAARC) meeting held in Islamabad without minister-level participation from a number of countries. Finance ministers from Sri Lanka, the Maldives and Bhutan will attend the conference while the deputy finance minister of Afghanistan and India's economic affairs secretary will represent their respective countries.

China's unmanned submersible sets new national record

China's unmanned submersible has dived to a depth of 10,767 metres at the world's deepest ocean point, setting a new record for the country to enable it to explore ocean beds for minerals and other natural resources.

First Tibetan-language search engine launched in China

China has launched its first Tibetan-language search engine 'Yongzin'. The search engine will serve as a unified portal for all major Tibetan-language websites in China. It has eight sections for news, websites, images, videos, music, encyclopedia, literature and forums.

SUMMITS, FESTIVALS & Other Events

3rd BRICS Urbanisation Forum Meet held in Visakhapatnam

The 3rd BRICS Urbanisation Forum Meet held in Visakhapatnam, Andhra Pradesh. The meet was inaugurated by CM N. Chandrababu Naidu in the presence of Union Minister of Urban Development, M. Venkaiah Naidu. The delegates from the BRICS nations, Brazil, Russia, India, China and South Africa, will discuss investments, urbanisation, formation of new cities and others during the three-day deliberations.

Centre inaugurates national fair in Bengaluru

Union Minister of State for Ayush (Independent Charge) Shri

Shripad Yesso Naik and Union minister for Fertilisers and Chemicals and Parliamentary Affairs Shri Ananth Kumar inaugurated the National Fair on comprehensive Indian Medicine system (AROGYA) in Bengaluru. BRICS Wellness Workshop and AROGYA fair is being organized by the Ministry of AYUSH, in collaboration with Research and Information System for Developing Countries (RIS).

Indo-US Economic Summit held in New Delhi

The 2-day Indo-US Economic Summit held in New Delhi. Leaders from business, government and academia from both the countries participated in the summit. It was inaugurated by Richard Verma, the US ambassador to India, and addressed by Union Ministers.

First BRICS film festival held in New Delhi

The first BRICS film festival held in New Delhi. Minister of State for Information and Broadcasting Rajyavardhan Rathore inaugurated the festival. The film festival is the run up to the BRICS summit which is to be held in Goa next month.

Vice President Ansari represents India at NAM Summit

Vice-President Hamid Ansari represents India at the 17th Summit of the Non-Aligned Movement (NAM) which was held at Margarita Island in Venezuela. India is one of the founding members of the Non Aligned Movement.

4th ASEAN-India Summit and the 11th East Asia Summit held in Vientiane, Laos

4th ASEAN-India Summit and the 11th East Asia Summit held in Vientiane, Laos PDR with the invitation of H.E. Mr. Thongloun Sisoulith, Prime Minister of Lao PDR.

Western Odisha celebrates Nuakhai – The Agricultural Festival

People across western Odisha are celebrating Nuakhai – the agrarian festival of the region – with religious fervor and devotion.

ASEAN Summit 2016 concludes in Vientiane, Laos

The Association of Southeast Asian Nations (ASEAN) Summit concluded at Vientiane, Laos. The theme for the 2016 summit was Turning Vision into Reality for a Dynamic ASEAN Community. H.E. Thongloun Sisoulith, Prime Minister of the Lao PDR, was the Chairperson of the summit.

First edition of IoT India Congress begins in Bengaluru

The first edition of IoT India Congress 2016 started in Bengaluru, Karnataka. The three-day event was inaugurated by Ravi Shankar Prasad, Union Information Technology (IT) and Electronics Minister, and JS Deepak, Secretary, Ministry of

Telecommunications.

BRICS women parliamentarians' forum passes Jaipur Declaration

Jaipur Declaration BRICS (Brazil, Russia, India, China and South Africa) women parliamentarians' forum on 21 August 2016 passed unanimously the Jaipur Declaration. The declaration was adopted by them on the concluding day of the BRICS Women Parliamentarians' Forum meet held in Jaipur, Rajasthan.

Mountain Echoes Literary Festival, 2016

The 7th edition of the Mountain Echoes Literary Festival 2016 held in the capital city of the Himalayan kingdom of Bhutan Thimbu. The festival was inaugurated by Queen Mother Ashi Dorji Wangmo Wangchuck, (Royal Patron) which aims to provide a platform for the greatest literary minds to engage in a cultural dialogue.

BRICS Convention on Tourism held

The two-day long "BRICS Convention on Tourism" held at world heritage site Khajuraho in Madhya Pradesh.

BOOKS AND AUTHORS

Uttarakhand governor releases book by author Nagrath

Uttarakhand Governor K K Paul has released a book titled 'Shanti ki Talaash mein Zindagi' written in Hindi by Haridwar-based author and journalist Radhika Nagrath.

Shatrughan biography 'Anything but Khamosh' launched in Nepal

Anything but Khamoshi: The biography of Bollywood actor and politician Shatrughan Sinha titled 'Anything but Khamosh' was launched in Nepal.

Document 'The Grolier Codex' among world's rarest books

13th-century Mayan document 'The Grolier Codex' is one of the rarest books in the world. The document was found in a cave in Mexico in the 1960s by Josue Saenz

"His Bloody Project" shortlisted for Man Booker prize

Novel titled His Bloody Project by Graeme Macrae Burnet was shortlisted for the 2016 Man Booker prize. His Bloody Project is a crime thriller that narrates a story in which a triple murder in a remote community in the Scottish Highlands leads to arrest of a young man, Roderick Macrae.

Book authored by Sanjeev Sanyal launched

A book titled The Ocean of Churn: How the Indian Ocean Shaped

Human History authored by Sanjeev Sanyal was released. The book narrated the history of The Indian Ocean, which stretches across East Africa, the Middle East and the Indian subcontinent to South East Asia and Australia.

IMPORTANT DAYS

National Nutrition Week Sep 1-7

National Nutrition Week is celebrated each year from September 1st - 7th Sept. to spread the nut-week word regarding the importance of nutrition for every child and how this not only affects the health and development of the child.

Hindi Diwas being celebrated throughout country

Hindi Diwas is being celebrated throughout the country on 14th September. President Pranab Mukherjee presented the Rajbhasha awards at Rashtrapati Bhawan. The Rajbhasha awards were instituted by the Department of Official Language of Home Ministry to recognize the excellent contribution of Ministries, Departments and Nationalized Banks in the field of Hindi.

World Suicide Prevention Day – September 10 2016

World Suicide Prevention Day is an awareness day observed on September 10th every year. The aim is to provide worldwide commitment and action to prevent suicides, with various activities around the world.

International Day for the Preservation of the Ozone Layer 2016 observed

The 2016 International Day for the Preservation of the Ozone Layer was observed across the world on 16 September 2016. The theme for the year 2016 is Ozone and climate: Restored by a world united.

International Day of Democracy observed

International Day of Democracy was observed on 15 September 2016 with theme Democracy and the 2030 Agenda for Sustainable Development. The day provides an opportunity to review the state of democracy in the world.

International Literacy Day 2016 celebrated across the world

The International Literacy Day was celebrated on 8 September 2016 across the world. The theme of International Literacy Day 2016 is Reading the Past, Writing the Future.

International Day of Charity observed globally

The International Day of Charity was on 5 September 2016 observed globally with an aim to recognise the role of charity in alleviating human suffering within and among nations, as well as

of the efforts of charitable organizations and individuals including the work of Mother Teresa.

National Sports Day celebrated on 29 August

National Sports Day was observed across India on 29 August 2016. The day is celebrated to mark the birth anniversary of the legendary hockey player Dhyan Chand who was born on 29 August.

International Day Against Nuclear Tests observed globally

International Day Against Nuclear Tests was on 29 August 2016 observed across the world with an aim to raise people's awareness on the need to prevent nuclear catastrophes to avert devastating effects on humankind, the environment and the planet.

International Day for the Remembrance of the Slave Trade and Its Abolition observed globally

The International Day for the Remembrance of the Slave Trade and Its Abolition was on 23 August 2016 observed across the world. The aim of the day is to pay tribute to the people who, on 22 to 23 August 1791, revolted against the system of slavery and started the Haitian Revolution.

SPORTS NEWS

India Blue wins 2016-2017 Duleep Trophy tournament

Gautam Gambhir-led India Blue has won the inaugural day/night



Duleep Trophy Cricket tournament held in Greater Noida. In the final, India Blue defeated India Red, captained by Yuvraj Singh, by a massive 355 runs. Cheteshwar Pujara was

named the Player of the Match.

Yogeshwar Dutt's bronze medal turns to silver

Wrestler Yogeshwar Dutt's London 2012 bronze might be upgraded to silver. The upgrade has been triggered by a positive dope test of late Russian wrestler Besik Kudukhov, the original silver winner in the 60-kg freestyle event.

100-year-old athlete from India, wins Gold Medal at Masters Games

India's 100-year-old athlete, Man Kaur has won Gold medal at the American Masters Games in the 100-meter dash. She took a

minute-and-a-half to cross the finish line in Vancouver.

Devendra Jhajharia wins second gold, breaks world record at Rio Paralympics 2016

Javelin thrower Devendra Jhajharia became the first Indian to clinch two gold medals at the Paralympics after he broke his own world record to clinch the top honours at the Rio Games. The 36-year-old is currently ranked third in the world.

Deepa Malik becomes first Indian woman to win medal at Paralympics

India's Deepa Malik created history by becoming the first ever woman from the country to win a medal at the Paralympics. With the win, she confirmed India's third medal from the Rio Paralympics. She will receive a cash award of Rs 4 crore under Haryana Sports Scheme for winning the silver medal.

Army Green beat Neroca FC to win Durand Cup

Army Green on has won the 128th edition of Durand Cup football title. Army Green defeated Neroca FC 6-5 via penalty shootouts.

Vietnam wins 1st Paralympic gold with world record

Vietnam won its first-ever Paralympic gold medal after para weightlifter Le Van Cong lifted 183 kgs, to set a new world record at the event.

Indian high jumpers win gold, bronze at Paralympics

India's Mariyappan Thangavelu created history by winning a gold medal in the men's high jump T-42 event at the Rio Paralympics. His compatriot Varun Singh Bhati clinched the bronze medal in the same event.

Sikki and Pranaav win Brazil Open Grand Prix

Indian mixed doubles pair of Sikki Reddy and Pranaav Jerry Chopra clinched their maiden Grand Prix title, bagging the Brazil Open with a straight game victory over Canadian combo of Toby Ng and Rachel Honderich in the finals, in Foz do Iguacu, Brazil.

Anjum Chopra becomes first Indian woman cricketer to receive MCC life membership

Anjum Chopra becomes the 1st woman cricketer from India to be awarded an honorary life membership of the Marylebone Cricket Club (MCC).

Ajinkya Rahane, Rohit Sharma conferred with Arjuna Award

Sports Minister Vijay Goel conferred Arjuna Awards on cricketers Rohit Sharma and Ajinkya Rahane at a function in New Delhi. Sharma was given the award for 2015 and Rahane for 2016.

Thangavelu wins gold; Varun Bhati bags bronze in Paralympics

India made an impressive start to its campaign at the Paralympic Games with Mariyappan Thangavelu creating history by bagging the gold while Varun Bhati won the bronze medal in the men's T42 high jump on the second day of the mega-event.

Abhinav Bindra announces retirement from shooting

Abhinav Bindra, India's lone individual Olympic gold medallist, has officially announced his retirement from shooting. A near second Olympic medal was missed by a whisker at the recently-concluded Rio Olympics 2016 and even if he felt gutted, Bindra was not ready to show it in front of his country's media.

US swimmer Ryan Lochte banned for 10 months by USOC

Swimmer Ryan Lochte from USA has been banned for 10-month following his bogus gunpoint robbery story during a drunken night out at the Rio Olympics. It was officially announced by United States Olympic Committee (USOC).

Paralympic Games held in Brazil

The 15th Summer Paralympic Games began on 7 September 2016 at Maracana Stadium in Rio de Janeiro, Brazil. The Summer Paralympic Games will conclude on 18 September 2016. The 4,300 athletes come from more than 160 countries.

Serena Williams makes Grand Slam history with win

Serena Williams surpassed Roger Federer for most Grand Slam match victories in tennis' Open era with No. 308, a 6-2, 6-3 win over Yaroslava Shvedova to reach the U.S. Open quarter-finals.

Shahan Ali Mohsin becomes first Indian to win the Asian Karting Championship

Young Indian racer Shahan Ali Mohsin created history by becoming the first Indian racer to win the Asian Karting Champion Championship.

Sikki, Pranaav win maiden Grand Prix title in Brazil: Badminton

Indian mixed doubles (Badminton) pair of Sikki Reddy and Pranaav Jerry Chopra clinched their maiden Grand Prix title, bagging the Brazil Open with a straight-game victory over Canadian combo of Toby Ng and Rachel Honderich in the finals.

Western Railway wins all India railway athletic championship

Western Railway won the overall team championship in the 82nd All India Railway athletic Championship held at Tiruchirapalli Tamil Nadu (TN). Central railway stood 2nd and Southern Railway 3rd in the overall team category. Best athlete award in men's category was given to Jasdeep Singh of Northern Railway and best women athlete award to Dutee Chand of

Northern Railway.

Zaheer Khan gets MCC's Honorary Life Membership

Zaheer Khan, former India pacer has been inducted as an Honorary Life Member of the Marylebone Cricket Club (MCC). He is the third Indian player to receive the distinction this year

after Virender Sehwag and Anjum Chopra.

Bhutan set to host Asian Tennis Tour event next month

Land of the thunder dragon's Nation Bhutan is set to become the fourth Asian country to host a tournament on the Asian Tennis Tour. India, Thailand, and Iran have already hosted a series of tournaments.

Nico Rosberg wins 2016 Belgian Grand Prix

German Mercedes driver Nico Rosberg has won the Belgian Grand Prix 2016 of Formula One. It was Rosberg's overall 10th championship title of F1 in his career and the sixth win in the 2016 season.

India captain MS Dhoni sets world record in 1st T20I in USA

India captain Mahendra Singh Dhoni has been set a world record, he captained India in a record 325th game (most by a player in history), across all three formats, to break Australian skipper Ricky Ponting's mark.

Sania wins Connecticut Open doubles title

Indian tennis ace Sania Mirza and her Romanian partner Monica Niculescu won the Connecticut Open doubles title defeated Kateryna Bondarenko of Ukraine and Chuang Chia Jung of Taiwan in the final. The Indo-Romanian pair won 7-5, 6-4.

Indian Super League season 3 to begin from October 1

Season-3 of the Indian Super League (ISL) football would be held from October 1 to December 18, with the opening game scheduled in Guwahati and the venues of the two-legged semi finals to be decided later.

Tillakaratne Dilshan to retire after Australia series

Sri Lanka's Tillakaratne Dilshan will quit international cricket after the ongoing limited overs series against Australia. Tillakaratne Mudiyansele Dilshan, is a professional Sri Lankan cricketer and a former captain of the Sri Lanka national cricket team. He is popularly known as Tillakaratne Dilshan.

Saina drops to 9th spot, Sindhu remains at 10th

India's Saina Nehwal has been dropped 4 points to be 9th, while compatriot PV Sindhu remained in the 10th spot in the Badminton World Federation (BWF) rankings despite getting a silver in the women's singles competition at the recently concluded Olympics in Rio.

Gujarat to host 2016 Kabaddi World Cup

The International Kabaddi Federation (IKF) has announced that the 2016 Kabaddi World Cup will be hosted in Gujarat's leading city, Ahmedabad. The tournament is set to take place from October 7th and will conclude on 22nd of the same month.

**Vikash Anand wins premier title in National Racing**

Chennai hailed Vikash Anand won a double to clinch the title in the MRF Formula 1600 category and a ticket for the Mazda Road to Indy shootout as the fifth and final round of the Indian National Racing Championship concluded in Chennai.

SCHEMES/APPS/PROGRAMME LAUNCHED

Mehbooba Mufti launches 'CM Scooty scheme' for girls

Jammu and Kashmir Chief Minister Mehbooba Mufti has been launched the "CM Scooty Scheme" for college girls. The scheme was launched in Srinagar and flagged off with the Chief Minister taking a ride on pillion seat of a scooterCM Scooty scheme.

Union Minister Maneka Gandhi launches POCSO e-box

Women and Child Development Minister (WCD) Maneka Sanjay Gandhi has launched Protection of Children from Sexual Offences, POCSO e-box, in New Delhi. POCSO e-box is a platform where a child victim of sexual abuse can report such cases online.

Himachal Health Minister launches ambulance mobile app

Himachal Pradesh Health Minister Kaul Singh Thakur has launched a mobile application called '108 HP' to facilitate efficient access to ambulances for medical emergencies.

Ananth Kumar launches 'Pharma Sahi Daam' mobile App

The Union minister of Chemicals & Fertilizers and Parliamentary

Affairs Ananth Kumar launched a mobile App. developed by NPPA, which shows the MRP fixed by NPPA for various scheduled drugs on the real time basis.

Union Minister JP Nadda unveiled Mera Asptal – My Hospital initiative

Union Health and Family Welfare Minister JP Nadda launched the 'Mera Asptaal' (my hospital) initiative. This move seeks to empower the patients by seeking their views on the quality of experience in a public healthcare facility.

1st phase of ESIC's pilot project of telemedicine services inaugurated

Union Minister of State for Labour and Employment Bandaru Dattatreya inaugurated the first phase of telemedicine services of Employees State Insurance Corporation (ESIC) for providing specialist medical services at a distance to insured workers.

Raman Singh launches 'Start Up Chhattisgarh' project

In line with the Centre's 'Start Up India' initiative, Chhattisgarh Chief Minister Raman Singh has launched the 'Start Up Chhattisgarh' programme to encourage entrepreneurs in the state.

Guruvayur included in PRASAD scheme

The famous Sreekrishna temple in Guruvayur has been included in the Union Tourism Ministry's Pilgrimage Rejuvenation and Spirituality Augmentation Drive (PRASAD). Under this PRASAD scheme Development of roads, new streetlights and improvement of drinking water supply will also be taken up.

Odisha Govt. launches construction workers pension scheme

The Odisha government has launched the construction workers pension scheme. It ensures financial assistance of 300 rupees per month to all registered construction workers after attaining the age of 60 years and 500 rupees for construction workers of more than 80 years.

MISCELLANEOUS

'Shankhachil' selected for Montreal Film Festival

Director Goutam Ghosh's National award-winning film "Shankhachil", an Indo-Bangla joint production, has been selected for the coveted 40th Montreal World Film Festival.

Rail passengers to get insurance cover worth Rs 10 lacs at a premium of only 92 paise

A travel insurance cover of up to Rs10 lakh can be availed while booking a train ticket online by paying less than one rupee from

31 August. A person booking a train ticket through the IRCTC website will be able opt for travel insurance cover for a premium of 92 paise only from 31 August.

New railway line between Nandyala and Yerraguntla commissioned

Union Railway Minister Suresh Prabhu and Andhra Pradesh Chief Minister N Chandrababu Naidu has commissioned a new railway line between Nandyala and Yerraguntla.

President of Egypt arrived India



President of Egypt, Abdel Fattah el-Sisi, is arriving on a three-day visit to India. He will be accompanied by a high-level delegation comprising Ministers, officials and business leaders.

TCS joins hands with SASTRA Varsity to train 2000 school teachers

TCS has partnered with Thanjavur-based SASTRA Deemed University to train over 2,000 teachers from Tamil Nadu on digital teaching methods.

Chris Gayle launches his autobiography 'Six Machine' in India

Explosive West Indies opener Chris Gayle has launched his autobiography 'Six Machine, which contains extensive details about his life and career. Published by Viking - Penguin UK, the book was unveiled by Anurag Singh Thakur, President of the BCCI.

BHEL commissions Unit-4 of Teesta Low Dam hydropower project

State-run BHEL has commissioned the 4th and last unit of the 4x40 MW Teesta Low Dam Hydro Electric Project (HEP) Stage-IV in West Bengal. A stretch of the river greenfield project located in Darjeeling district of West Bengal, Teesta HEP has been set up by NHPC Ltd, on the River Teesta.

Stuart Blackburn's book based on Arunachal wins MM Bennetts Award

Famous Author Stuart Blackburn's "Into the Hidden Valley", a book based on Apatani tribe of Arunachal Pradesh, won the MM Bennetts Award for Historical Fiction 2016 in the UK. He is the author of 16 books on Indian culture.

India ends Yaws, Maternal & Neonatal Tetanus, WHO certifies

World Health Organization (WHO) has recognized India as the world's first Yaws-free country and declared it free from maternal and neonatal tetanus.

CCI slaps Rs 6700 crore fine on 10 cement companies

The Competition Commission of India (CCI) has imposed penalty of over Rs 6,700 crore on 10 cement companies including ACC, Lafarge, Ultratech, Jayprakash Associates, Binani and their trade association the Cement Manufacturers Association (CMA) on charges of cartelisation in the sector.

Alibaba Group launches 'million books' donation drive

Online and mobile commerce major The Alibaba Group, along with Crossword and Ratna Nidhi Charitable Trust has launched 'Mission Million Books', a pan-India initiative inviting Indian citizens to donate textbooks and educational material for the underprivileged.

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Handy Notes Mathematics : Concept of Trains

A train is said to have crossed an object (stationary or moving) only when the last coach (end) of the train crosses the said object completely. It implies that the total length of the train has crossed the total length of the object.

The basic concept for train related problem

Speed = Distance / time.

but we should kept in mind these discussed points below.

- When the train is crossing a moving object, the speed has to be taken as the relative speed of the train with respect to the object.
- The distance to be covered when crossing an object, whenever trains crosses an object will be equal to:

Length of the train + Length of the object

NOTE- When train is crossing a stationary object (with length) like bridge, platform, and then its Length is added to the length of train to get required length.

When train is crossing a pole, tree, man etc.. then their length is neglected with respect to train, Here only length of train is considered.

Condition:

When Train crosses single object:

- Train Crosses a stationary object (without length like tree, man, pole etc..)**

So time taken by train to cross the object = $\frac{\text{Length of train}}{\text{Speed of train}}$

- Train Crosses a stationary object of Length L**

So time taken by train to cross the object = $\frac{\text{Length of train} + L}{\text{speed of train}}$

- Train crosses a moving object of length L with some speed in the same direction of train**

So time taken by train to cross the object = $\frac{\text{Length of train} + L}{\text{Speed of train} - \text{Speed of object}}$

Speed of train - Speed of object

- Train crosses a moving object of length L with some Speed in the opposite direction of train**

So time taken by train to cross the object = $\frac{\text{Length of train} + L}{\text{Speed of train} + \text{Speed of object}}$

Speed of train + Speed of object

When two train crossing each other in both directions:

Let length of one train = L_1 , Length of Second train = L_2

They are crossing each other in opposite direction in t_1 sec and same direction in t_2 sec respectively,

Then,

Speed of **faster train** = $\frac{(L_1 + L_2)}{2} \left[\frac{1}{t_1} + \frac{1}{t_2} \right]$

Speed of **slower train** = $\frac{(L_1 + L_2)}{2} \left[\frac{1}{t_1} - \frac{1}{t_2} \right]$

- If two trains (or bodies) start at the same time from points A and B towards each other and after crossing they take a and b sec in reaching B and A respectively, then:

$$(\text{A's speed}) : (\text{B's speed}) = (b : a)^{1/2}$$

Practice Exercise

- A train, 300 m long, passed a girl, walking along the line in the same direction at the rate of 3 km/h in 33 s. The speed of the train is.
 - 30 km/h
 - 32 km/h
 - $32\frac{8}{11}$ km/h
 - $35\frac{8}{11}$ km/h
- A train passes two women walking in the same direction at a speed of 3 km/h and 5 km/h, respectively in 10s and 11 s, respectively. The speed of the train is
 - 28 km/h
 - 27 km/h
 - 25 km/h
 - 24 km/h
- A train 110 m long, is running at a speed of 60 km/h. How many seconds does it take to cross another train 170 m long, standing on parallel track?
 - 15.6
 - 16.8
 - 17.2
 - 18
- A train travelling at a speed of 30 m/s crosses a platform, 600 m long in 30 s. The length (in metres) of train is
 - 120
 - 150
 - 200
 - 300
- A train 800 m long is running at the speed of 78 km/h. If it crosses a tunnel in 1 min, then the length of the tunnel (in metres) is
 - 77200
 - 500
 - 1300
 - 13
- A moving train crosses a man standing on a platform and a bridge 300 m long in 10 s and 25 s, respectively. What will be the time taken by the train to cross a platform 200 m long?
 - $16\frac{2}{3}$ s
 - 18 s
 - 20 s
 - 22 s
- A train passes two bridge of length 800 m and 400 m in 100 s and 60 s, respectively. The length of the train is
 - 80 m
 - 90 m
 - 200 m
 - 150 m
- Two trains are running at 40 km/h and 20 km/h, respectively in the same direction. The faster train completely passes a girl sitting in the slower train in 5 s. The length of the faster train is
 - $23\frac{2}{9}$ m
 - 27 m
 - $27\frac{7}{9}$ m
 - 23 m
- Two trains start from a certain place on two parallel tracks in the same direction. The speed of the trains are 45 km/h and 40 km/h, respectively. The distance between the two trains after 45 min will be
 - 2 km 500 m
 - 2 km 750 m
 - 3 km 750 m
 - 3 km 250 m
- How much time does a train, 50 m long, moving a 68 km/h

take to pass another train, 75 m long moving at 50 km/h in the same direction?

- (a) 5 s (b) 10 s
(c) 20 s (d) 25 s

11. A moving train, 66 m long, overtakes another train of 88 m long, moving in the same direction in 0.168 min. If the second train is moving at 30 km/h, at what speed is the first train moving?

- (a) 85 km/h (b) 50 km/h
(c) 55 km/h (d) 25 km/h

12. Two trains of length 137 m and 163 m are running with speeds of 42 km/h and 48 km/h respectively towards each other on parallel tracks. In how many seconds will they cross each other?

- (a) 30 (b) 24
(c) 12 (d) 10

13. A train travelling at 48 km/h crosses another train, having half its length and travelling in opposite direction at 42

$$x = 500m$$

Solution

1. (d); Speed of girls = 3 kmph.

Let speed of train = x kmph

$$\text{Time} = \frac{\text{distance}}{\text{speed}}$$

$$\frac{33}{60 \times 60} = \frac{300 \times (\frac{1}{1000})}{(x-3)}$$

$$110(x-3) = 3600$$

$$x = \frac{393}{11}$$

$$x = 35 \frac{8}{11} \text{ km/h}$$

2. (c); Speed = $\frac{\text{Distance}}{\text{time}}$

Let speed of train = x

Distance = Time \times speed

$$L = \left(\frac{10}{60 \times 60}\right) \times (x-3)$$

And

$$L = \frac{11}{60 \times 60} (x-5)$$

So,

$$\frac{10}{60 \times 60} (x-3) = \frac{11}{60 \times 60} (x-5)$$

$$10x - 30 = 11x - 55$$

$$x = 25 \text{ kmph}$$

3. (b); Required time = $\frac{(110+170)}{60 \times \frac{5}{18}}$

$$= \frac{280 \times 18}{60 \times 5}$$

$$= 28 \times 0.6 = 16.8 \text{ seconds}$$

4. (d); Speed = $\frac{\text{Length}}{\text{Time}}$

$$30 = \frac{(T+600)}{30}$$

$$900 = T + 600$$

$$T = 300 \text{ m}$$

5. (b); Speed = $\frac{\text{Length}}{\text{Time}}$

$$78 \times \frac{5}{18} = \frac{(800+x)}{60}$$

$$\frac{1}{3} \times 65 \times 60 = 800 + x$$

$$1300 = 800 + x$$

km/h, in 12 s. It also passes a railway platform in 45 s. The length of the railway platform is

- (a) 200 m (b) 300 m
(c) 350 m (d) 400 m

14. Two trains start from stations A and B and travel towards each other at speeds of 50 km/h and 60 km/h, respectively. At the time of their meeting the second train has travelled 120 km more than the first. The distance between A and B is

- (a) 990 km (b) 1200 km
(c) 1320 km (d) 1440 km

15. Two trains one 160 m and the other 140 m long are running in opposite directions on parallel track, the first at 77 km an hour and the other 67 km an hour, How long will the trains take to cross each other?

- (a) 7 s (b) $7 \frac{1}{2}$ s
(c) 6 s (d) 10 s

$$= 25 \text{ seconds}$$

11. (a); Let speed of 1st train = x
 $\frac{0.168}{60} = \frac{(60+88) \times 1/1000}{(x-30)}$

$$168(x-30) = 154 \times 60$$

$$6x - 180 = 330$$

$$x = \frac{510}{6} = 85 \text{ kmph}$$

12. (c); Time = $\frac{\text{Length}}{\text{Relative Speed}}$

$$= \frac{(137 + 163)}{(42 + 48) \times \frac{5}{18}}$$

$$= \frac{300 \times 18}{90 \times 5} = 12 \text{ seconds}$$

13. (d); $12 = \frac{(T+T/2)}{(48+42) \times \frac{5}{18}}$

$$= 12 \times 90 \times 5 = \frac{3}{2} \times T \times 18$$

$$T = 200$$

Let length of platform = x

$$45 = \frac{(20+x)}{48 \times \frac{5}{18}}$$

$$45 \times 48 \times \frac{5}{18} = (200 + x)$$

$$x = 400 \text{ m}$$

14. (c); Since the time taken by the both train is same

$$\frac{x}{50} = \frac{(x+120)}{60}$$

$$6x = 5x + 600$$

$$x = 600$$

$$\text{Required distance} = (x + 120) + x = 2 \times 600 + 120 = 1320 \text{ m}$$

15. (b); Required time = $\frac{\text{Length of trains}}{\text{Relative Speed}}$

$$= \frac{(160+140)}{(77+67) \times \frac{5}{18}}$$

$$= \frac{300 \times 18}{144 \times 5} = 7 \frac{1}{2} \text{ seconds}$$

VOCABULARY CORNER

1. Repertoire

Meaning: a stock of plays, dances, or items that a company or a performer knows or is prepared to perform.

Synonym: collection, stock, range, repertory

Sentence: "the mainstream concert repertoire"

2. Reprimand

Meaning: a formal expression of disapproval.

Synonym: admonition, reproach, reproof, scolding

Sentence: "the golfer received a reprimand for a breach of rules"

3. Reverberate

Meaning: (of a loud noise) be repeated several times as an echo.

Synonym: resound, echo, repeat, resonate, pulsate, vibrate,

Antonym: dampen, deaden, dull, quiet

Sentence: "her deep booming laugh reverberated around the room"

4. Monologue

Meaning: a long speech by one actor in a play or film, or as part of a theatrical or broadcast programme.

Synonym: soliloquy, speech, address, lecture, oration, sermon,

Sentence: "he was reciting some of the great monologues of Shakespeare"

5. Ominous

Meaning: giving the worrying impression that something bad is going to happen; threateningly inauspicious.

Synonym: threatening, menacing, baleful, forbidding, sinister,

Antonym: promising, auspicious, propitious

Sentence: "there were ominous dark clouds gathering overhead"

6. Spurious

Meaning: not being what it purports to be; false or fake.

Synonym: specious, false, fictitious, counterfeit, fraudulent

Antonym: authentic, genuine, real

7. Badinage

Meaning: humorous or witty conversation

Synonym: repartee

Sentence: "he developed a nice line in badinage with the Labour leader"

8. Pugnacious

Meaning: eager or quick to argue, quarrel, or fight.

Synonym: combative, aggressive, antagonistic,

Antonym: peaceable, friendly

Sentence: "the increasingly pugnacious demeanour of right-wing politicians"

9. Besotted

Meaning: Very Drunk

Synonym: Buzzed, drunk

Antonym: Sober, straight

Sentence: I had travelling money and got besotted in the bar downstairs

10. Pejorative

Meaning: expressing contempt or disapproval.

Synonym: disparaging, derogatory, denigratory, deprecatory,

Antonym: complimentary, approbatory

Sentence: "permissiveness is used almost universally as a pejorative term"

11. Alliteration

Meaning: the occurrence of the same letter or sound at the beginning of adjacent or closely connected words.

Sentence: "the alliteration of 'sweet birds sang'"

12. Alleviate

Meaning: make (suffering, deficiency, or a problem) less severe.

Synonym: reduce, ease, relieve

Antonym: aggravate

Sentence: "he couldn't prevent her pain, only alleviate it"

13. Alchemy

Meaning: the medieval forerunner of chemistry, concerned with the transmutation of matter, in particular with attempts to convert base metals into gold or find a universal elixir

Synonym: chemistry

Sentence: "occult sciences, such as alchemy and astrology"

14. Errant

Meaning: wrong, deviant

Synonym: erratic, stray

Antonym: normal,

Sentence: I saw an errant man shouting at his daughter for skipping office

15. Attrition

Meaning: A wearing down to weaken or destroy

Synonym: erosion, grinding

Antonym: building, happiness

Sentence: The difficulty was to overcome its susceptibility to attrition.

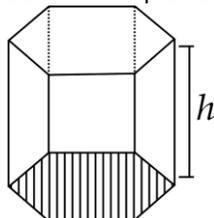


Handy Notes: Prism, Pyramid & Tetrahedron Concept

1. Prism :

A solid with two congruent parallel faces, any cross section parallel to those faces is congruent to them.

Two faces that are parallel and congruent are called the bases of the prism.



- (a) Volume of prism = area of base \times height
- (b) Lateral surface area = perimeter of base \times height
- (c) Total surface area of prism = Lateral surface area + 2 (area of base)

	Triangular	Rectangular	Pentagonal	Hexagonal
Faces	5	6	7	8
Edges	9	12	15	18
Vertices	6	8	10	12

A right prism having each of the bases of a polygon of n sides

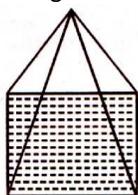
No. of faces = 2 polygon of n sides + n rectangles = $n + 2$

No. of edges = $3n$

No. of vertices = $2n$

2. Pyramid

It is a solid figure with a polygon base and all other faces triangles that meet at a common vertex.



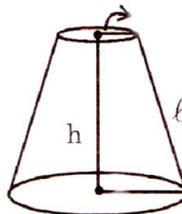
- (a) Volume of pyramid = $\frac{1}{3} \times$ area of base \times height
- (b) Lateral surface area = $\frac{1}{2} \times$ perimeter of base \times slant height (l)
- (c) Total surface area = Lateral surface area + area of base = $\frac{1}{2} \times$ perimeter of base \times slant height + area of base

	Triangular	Rectangular	Pentagonal
Faces	4	5	6
Edges	6	8	10
Vertices	4	5	6

3. Frustum :

Frustum of a cone is the solid obtained after removing the upper portion of the cone by a plane parallel to its base.

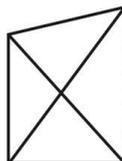
Heights : The perpendicular distance between the aforesaid plane and the base is called the height of the frustum.



- (a) Slant height (l) = $\sqrt{h^2 + (R - r)^2}$
- (b) Volume of = $\frac{\pi h}{3} [r^2 + Rr + R^2]$
- (c) Curved surface area (C.S.A.) = $\pi(R + r)l$
- (d) Total surface area = C.S.A + $\pi(R^2 + r^2)$
= $\pi(R + r)l + \pi(R^2 + r^2)$
= $\pi[(R + r)l + (R^2 + r^2)]$

4. Tetrahedron

Its all surface is equilateral triangle and it has one base and three lateral surface.



- (a) Lateral surface area = $\frac{3\sqrt{3}}{4} \times (\text{side})^2$
- (b) Total surface area = $\frac{4\sqrt{3}}{4} \times (\text{side})^2$
- (c) height = $\sqrt{\frac{2}{3}} \times \text{side}$
- (d) volume = $\frac{\sqrt{2}}{12} \times (\text{side})^3$

Practice Exercise

- Find the volume of tetrahedron if its each side is 36 cm
 - (a) $3888\sqrt{2} \text{ cm}^3$
 - (b) $1944\sqrt{2} \text{ cm}^3$
 - (c) 3888 cm^3
 - (d) 3448 cm^3
- If base of pyramid is in the form of hexagon in which each side is $2a$ cm. If slant height of pyramid is $\frac{5a}{2}$ cm, the volume of pyramid will be?
 - (a) $3a^3 \text{ cm}^3$
 - (b) $3\sqrt{2}a^3 \text{ cm}^3$
 - (c) $3\sqrt{3}a^3 \text{ cm}^3$
 - (d) $6a^3 \text{ cm}^3$
- If base of pyramid is in form of triangle whose sides are 21 cm, 20 cm and 13 cm and its height is 30 cm, then find the volume in cm^3 –
 - (a) 430
 - (b) 630
 - (c) 1068
 - (d) 1260
- If height of prism is 15 cm and base is in form of square. Therefore, total surface area is 608 cm^2 , find its volume –
 - (a) 910 cm^3
 - (b) 920 cm^3
 - (c) 960 cm^3
 - (d) 980 cm^3
- If perimeter of triangular based prism is 15 cm and radius

of incircle of triangular base is 3 cm. Volume of prism is 270 cm^3 , find the height of prism?

- (a) 6 cm (b) 7.5 cm
(c) 10 cm (d) 12 cm

6. If base of prism is in form of an equilateral triangle of side 6 cm and its volume is $81\sqrt{3} \text{ cm}^3$. Therefore, height of prism in cm?
(a) 9 (b) 10
(c) 12 (d) 15
7. If volume of pyramid is $48\sqrt{3} \text{ cm}^3$ and its base is in form of equilateral triangle. Height of pyramid is 4 cm, find the each side of equilateral triangle—
(a) 4 cm (b) 6 cm
(c) 12 cm (d) 3 cm
8. Find the volume and lateral surface area of Pyramid whose base is square that has 24 cm length and height of pyramid is 10 cm.
(a) $1920 \text{ cm}^3, 96\sqrt{54} \text{ cm}^2$ (b) $1920 \text{ cm}^3, 96\sqrt{61} \text{ cm}^2$
(c) $1920 \text{ cm}^3, 61\sqrt{96} \text{ cm}^2$ (d) $1960 \text{ cm}^3, 54\sqrt{96} \text{ cm}^2$
9. If the radii of the circular ends of a conical bucket, which is 45 cm high, are 28 cm and 7 cm, find the capacity of the bucket.
(a) 48510 cm^3 (b) 45283 cm^3
(c) 42866 cm^3 (d) 48583 cm^3
10. A friction clutch is in the form of the frustum of a cone, the diameters of the ends being 8 cm, 10 cm and slant height 8 cm. Find its its volume.(use $\pi = 3.14$)
(a) $181.54\sqrt{1} \text{ cm}^3$ (b) $1828\sqrt{2} \text{ cm}^3$
(c) $191.54\sqrt{7} \text{ cm}^3$ (d) $121.44\sqrt{7} \text{ cm}^3$

Answer and Solution

1. (a); Value of tetrahedron = $\frac{\sqrt{2}}{12} \times (\text{side})^2$
= $\frac{\sqrt{2}}{12} \times (36)^2$
= $3888\sqrt{2}$
2. (c); Height = $\sqrt{\left(\frac{5a}{2}\right)^2 - (2a)^2} = \frac{3}{2}a$
Volume of pyramid = $\frac{1}{3} \times \text{area of base} \times \text{height}$
= $\frac{1}{3} \times 6 \times \frac{\sqrt{3}}{4} \times (2a)^2 \times \frac{3a}{2}$
= $3\sqrt{3} a^3 \text{ cm}^3$
3. (d); Sides of triangle = 21, 20 & 13 cm
 $S = \frac{21+20+13}{3} = 27 \text{ cm}$
area of triangle = $\sqrt{s(s-a)(s-b)(s-c)}$
= $\sqrt{27(27-21)(27-20)(27-13)}$
= $\sqrt{27 \times 6 \times 7 \times 14}$
= $3 \times 3 \times 2 \times 7 = 126 \text{ cm}^2$
Volume of pyramid = $\frac{1}{3} \times \text{area of base} \times \text{height}$
= $\frac{1}{3} \times 126 \times 30 = 1260 \text{ cm}^3$
4. (c); Total surface area = lateral surface area + 2 (area of base)
 $608 = \text{Perimeter of base} \times \text{height} + 2 (\text{area of base})$

$$608 = 4 \times a \times 15 + 2(a^2)$$

$$a^2 + 30a - 304 = 0$$

$$a = 8, -38$$

Volume of prism = area of base \times height
= $(8)^2 \times 15$
= 960 cm^2

5. (d); Area of triangular base = $\frac{1}{2} (\text{Perimeter}) \times \text{inradius}$
= $\frac{1}{2} \times 15 \times 3$
= $\frac{45}{2}$
Volume of prism = area of base \times height
 $270 = \frac{45}{2} \times \text{height}$
height = $\frac{270 \times 2}{45} = 12 \text{ cm}$
6. (a); Volume of prism = area of base \times height
 $81\sqrt{3} = \frac{\sqrt{3}}{4} \times 6^2 \times h$
 $h = 9 \text{ cm}$
7. (c); Volume of pyramid = $\frac{1}{3} \times \text{area of base} \times \text{height}$
= $48\sqrt{3} = \frac{1}{3} \times \frac{\sqrt{3}}{4} \times a^2 \times 4$
= $48 \times 3 = a^2$
= $a = 12 \text{ cm}^2$
8. (b); $l = \sqrt{\left(\frac{24}{2}\right)^2 + (10)^2}$
= $\sqrt{144 + 100}$
= $\sqrt{244} \text{ cm}$
Volume of Pyramid = $\frac{1}{3} \times \text{area of base} \times \text{height}$
= $\frac{1}{3} \times 24 \times 24 \times 10$
= 1920 cm^3
Lateral surface area = $\frac{1}{2} \times \text{Perimeter of base} \times l$
= $\frac{1}{2} \times 24 \times 4 \times \sqrt{244}$
= $96\sqrt{61} \text{ cm}^2$
9. (a); Capacity of bucket = $\frac{1}{3} \pi h (R^2 + r^2 + Rr)$
= $\frac{1}{3} \times \frac{22}{7} \times 45 [28^2 + 7^2 + 28 \times 7]$
= $\frac{22}{7} \times 15 \times [784 + 49 + 196]$
= $\frac{22}{7} \times 15 \times 1029 = 48510 \text{ cm}^3$
10. (c); $r_1 = \frac{10}{2} = 5 \text{ cm}$
 $r_2 = \frac{8}{2} = 4 \text{ cm}$
 $l = 8 \text{ cm}$
 $h^2 = l^2 - (r_1 - r_2)^2$
= $(8)^2 - (5 - 4)^2$
= $64 - 1 = 63$
 $\therefore h = \sqrt{63} \text{ cm}$
Volume = $\frac{\pi h}{3} [r_1^2 + r_1 r_2 + r_2^2]$
= $\frac{3.14 \times \sqrt{63}}{3} [5^2 + 5 \times 4 + 4^2]$
= $\frac{3.14 \times 3\sqrt{7} \times 61}{3}$
= $191.54\sqrt{7} \text{ cm}^3$

Handy Notes Reasoning: Data Flow Diagram (DFD)

In “November” month edition we will discuss about “DFD(Data Flow Diagram)” on which there was a question in “SBI PO MAINS” exam which was a surprise question for banking aspirants.

❖ First question arises in our mind **What is DFD?**

DFD(Data Flow Diagram):-It is a pictorial representation of certain condition. And information of certain condition will be given in puzzled form. And you have to analyze DFD by applying your logical ability to answer different questions asked on it.

❖ **Points to keep in mind while approaching DFD questions:-**

(1) First of all analyze the whole DFD and try to understand it.

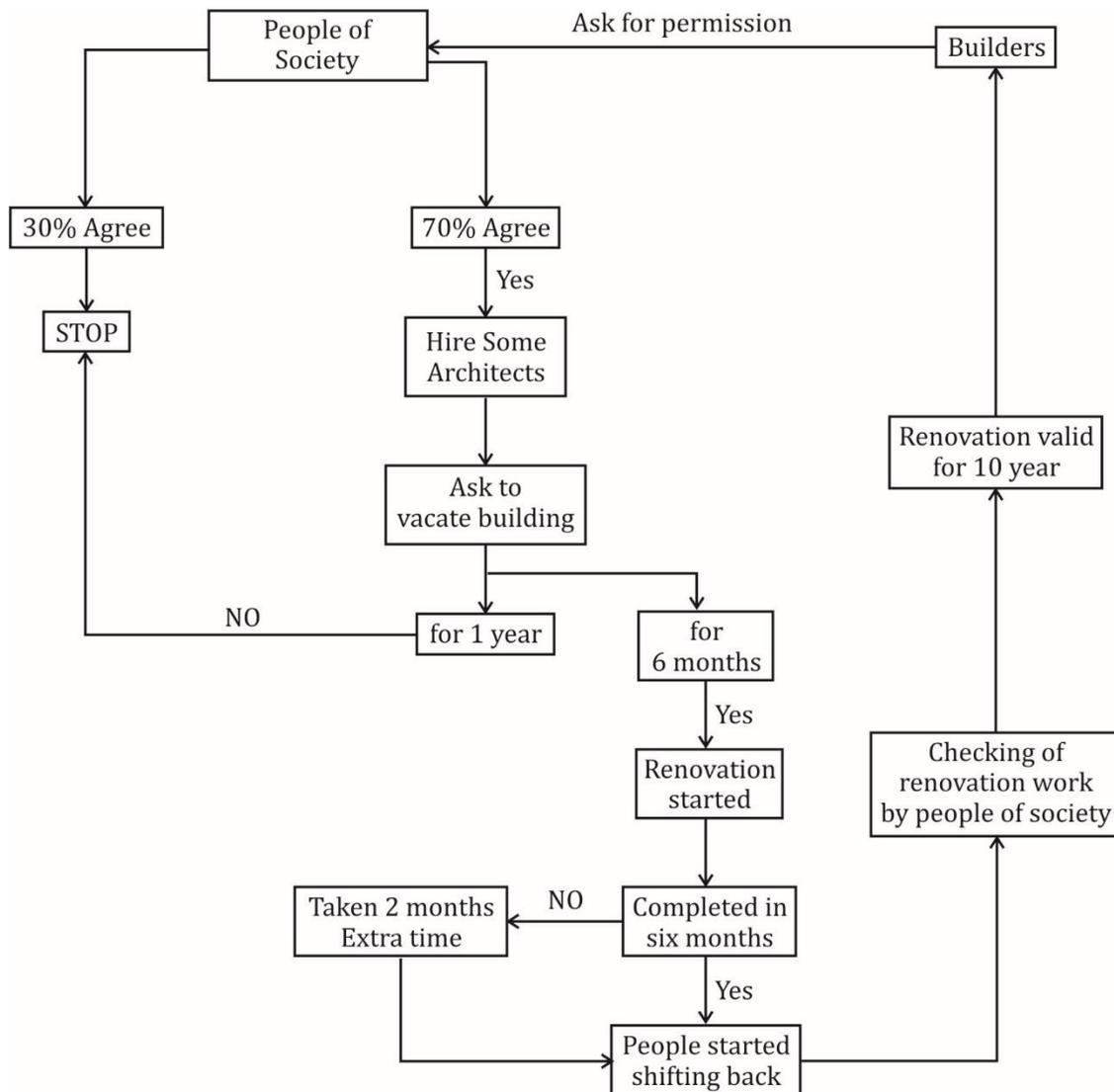
(2) Try to gather hidden information from given DFD.

(3) Apply your logical ability and try to judge the given question. You will definitely get answer within the DFD.

(4) Always try to give answer based on DFD not on your own perception.

(5) Never get panic after seeing a large diagram. It is just decision based question which is completely based on analytical ability.

❖ **Now we will discuss DFD in details by taking an example:-**



In this example a builder **X** is taking permission to renovate a building. And for this different condition is shown in pictorial form. You have to understand the DFD and after analyzing try to get hidden information.

So, let's discuss some question related to it:-

1. After /Before which step Builder should have taken legal permission from concerned authority for renovation work?
 - (a) After hiring required architects.
 - (b) Before asking people of society to vacate their house.
 - (c) After taking permission from people of society.
 - (d) After asking people of society to vacate their house.
 - (e) cannot be determined.

Solution:- (c) After analyzing DFD, we can determine that after taking permission from people of society, Builder should have taken legal permission from concerned authority for renovation work. Taking permission after hiring required architects is useless. And taking permission from concerned authority before asking people of society is not logically right because first step should be taking permission from owner of a building which is to be renovated.

2. Which condition is sufficient to make sure that renovation work will be completed in 6 months?
 - (a) Concerned authority are regularly visiting to renovation site for cross check of work.
 - (b) Builders are planning to make renovation make valid for 15 years.
 - (c) Data insufficient.
 - (d) People of society have given ultimatum to builders to complete renovation in six months otherwise they will go on hunger strike.
 - (e) None of these.

Solution:- (c) No data is sufficient to make sure that renovation work will be completed in six months. Option (a) is a preventive approach by concerned authority to complete work on time. But it does not make sure that work will be completed in six months. In option (c) people of society are giving just warning to builders. But none option can make sure that work will be completed in six months.

3. Which step of renovation is logically missing in Data flow diagram?
 - (a) If only 30% people gets agree for renovation then Builders should again try to convince people.
 - (b) Builders should take legal permission from concerned authority for renovation.

(c) To complete renovation, Builder should take 3-4 time duration slot.

(d) Before vacating house people should take suggestions from their relatives.

(e) None of these.

Solution:-(b) In this question you have to find out the hidden information from the given DFD. In this question missing step of renovation is to be find out. So answer will be (b) i.e. Builder should take legal permission from concerned authority for renovation.

- ❖ This topic is one of the most important topic which may come in the Banking Mains exam. So, go through it and try to clear concept of "DFD(Data Flow Diagram)"

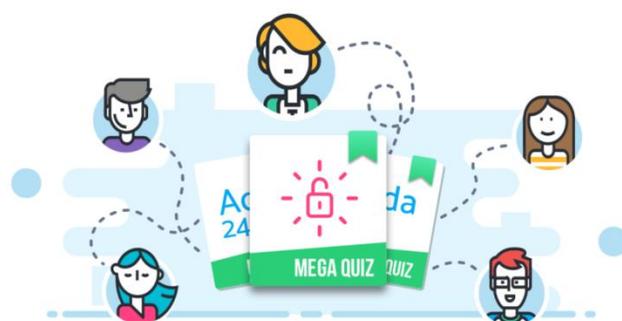
We have given our best to make you understand the concept of "DFD(Data flow diagram)" and give explanations with example. Hope you will be able to get things clear. In our next edition we will cover new topic of Reasoning. So, stay connected with competition power



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Handy Notes English : Simple Future Tense

Form of Simple Future Tense: WILL

a) Affirmative (Positive) Sentences

In the positive sentence form, the helping verb "will" is used with the simple forms of the verbs (V1) after all subjects.

I	will enter the room at the right moment.	will have my lunch at 2.
You		
He		
She		
We		
They		

Examples:

I **will** finish my work by Sunday.
The Rajdhani Express **will** arrive at platform number 2.
Abhay **will** eat Pizza.
The weather **will** be rainy this afternoon

b) Negative Sentences

In the negative form of simple future tense, not is simply added to the sentence after the helping verb will.

I	will not go to office today.	will not have my lunch before 2.
You		
He		
She		

We		
They		

Examples:

I **will not** see Tom this morning.
Neeraj **will not** come to work today.
They **will not** go to the cinema this weekend.
We **will not** play football tomorrow.

c) Question Sentences

In question sentences, the helping verb will is used just before the subject of the sentences. Simple form of the verbs (V1) are used after the subject.

Will	I	go to office today.	have my lunch at 2.
	You		
	He		
	She		
	We		
	They		

Will you be at home tomorrow night?
Will the dinner be ready in a few minutes?
Will you arrive in Manchester next week?



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Handy Notes Computer: Computer Terminologies

Data: Information consisting of letters, numbers, symbols, sound, or images—in a form that can be processed by a computer.

Data compression : A procedure for reducing the volume of data so as to shorten the time needed to transfer the data or to reduce the amount of space needed to store the data.

Database: A stored collection of information.

Database management system (DBMS): The software needed to establish and maintain a database and manage the-stored information.

Dead-tree edition : The paper version of a publication available online.

Debugging : Locating and eliminating defects in a program. (See also Bug.)

Decimal tab : A type of tab that aligns columns of figures on the decimal point.

Default settings : The preestablished settings (for margins, font, type size, tab stops, and so on) that a program will follow unless the user changes them.

Delete : A command to erase information in storage.

Denial of service (DoS) attack

A malicious act intended to shut down a Web site or a network by flooding it with too much information. Users who attempt to visit the site will be denied access.

Desktop : The electronic work area on a display screen.

Desktop computer : A microcomputer that is bigger than a laptop.

Desktop publishing (DTP) : A system that processes the text and graphics and, by means of page layout software and a laser printer, produces high-quality pages suitable for printing or in-house reproduction.

Dialog box : A message box on the screen that supplies information to—or requests information from—the user.

Dictionary

A program used to check the spelling of each word entered in the computer.

Digerati : A term referring to the elite group of intellectuals in the computer world (in the same way that literati refers to the

elite group of intellectuals in the literary world).

Directory : A list of the files stored on a disk.

Disc: A nonmagnetic storage medium that is used in conjunction with optical technology.

Disk : A random-access, magnetically coated storage medium used to store and retrieve information.

Disk drive : The component of a computer into which a disk is inserted so that it can be read or written on.

Diskette : A small, nonrigid disk with limited storage capacity. Also known as a floppy disk.

Display screen : A device similar to a television screen and used on a computer to display text and graphics. Also called a video display terminal (VDT) or a monitor.

Distributed processing system : A form of a local area network in which each user has a fully functional computer but all users can share data and application software. The data and software are distributed among the linked computers and not stored in one central computer.

DNS : Domain name system.

Document : Any printed business communication—for example, a letter, memo, report, table, or form.

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Handy Notes Banking : RBI

Establishment

The RBI was established on April 1, 1935 in accordance with the provisions of the RBI Act, 1934.

The Central Office of the Reserve Bank was initially established in Calcutta but was permanently moved to Mumbai in 1937. The Central Office is where the Governor sits and where policies are formulated. Though originally privately owned, since nationalisation in 1949, the Reserve Bank is fully owned by the Government of India.

Preamble

The Preamble of the RBI describes the basic functions of the Reserve Bank as:

"...to regulate the issue of Bank Notes and keeping of reserves with a view to securing monetary stability in India and generally to operate the currency and credit system of the country to its advantage."

Central Board

The Reserve Bank's affairs are governed by a central board of directors. The board is appointed by the Government of India in keeping with the RBI Act. Appointed/nominated for a period of four years.

Constitution:

Official Directors

- Full-time : Governor and not more than four Deputy Governors

Non-Official Directors

- Nominated by Government: ten Directors from various fields and two government Official
- Others: four Directors - one each from four local boards

At Present:

- Dr. Urjit R. Patel, Governor
- Shri R. Gandhi, Deputy Governor
- Shri S. S. Mundra, Deputy Governor
- Shri N. S. Vishwanathan, Deputy Governor

Financial Supervision

The RBI performs this function under the guidance of the Board for Financial Supervision (BFS). It was constituted in November 1994 as a committee of the Central Board of Directors of the RBI.

Objective: Primary objective of BFS is to undertake consolidated supervision of the financial sector comprising commercial banks, financial institutions and non-banking finance companies.

Constitution: The Board is constituted by co-opting four Directors from the Central Board as members for a term of two years and is chaired by the Governor. The Deputy Governors of the Reserve Bank are ex-officio members. One Deputy Governor, usually, the Deputy Governor in charge of banking regulation and supervision, is nominated as the Vice-Chairman of the Board.

Acts administered by RBI

- RBI Act, 1934
- Public Debt Act, 1944/Government Securities Act, 2006
- Government Securities Regulations, 2007
- Banking Regulation Act, 1949
- Foreign Exchange Management Act, 1999
- Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002 (Chapter II)
- Credit Information Companies(Regulation) Act, 2005
- Payment and Settlement Systems Act, 2007

Main Functions of RBI

Monetary Authority:

- Formulates implements and monitors the monetary policy.
- Objective:** maintaining price stability and ensuring adequate flow of credit to productive sectors.

Regulator and supervisor of the financial system:

- Prescribes broad parameters of banking operations within which the country's banking and financial system functions.
- Objective:** maintain public confidence in the system, protect depositors' interest and provide cost-effective banking services to the public.

Manager of Foreign Exchange

- Manages the Foreign Exchange Management Act, 1999.
- Objective:** to facilitate external trade and payment and promote orderly development and maintenance of foreign exchange market in India.

Issuer of currency:

- Issues and exchanges or destroys currency and coins not fit for circulation.
- Objective:** to give the public adequate quantity of supplies of currency notes and coins and in good quality.

Developmental role

- Performs a wide range of promotional functions to support national objectives.

Related Functions

- Banker to the Government:** performs merchant banking function for the central and the state governments; also acts as their banker.
- Banker to banks: maintains banking accounts of all scheduled banks.

Offices

- Has 19 regional offices, most of them in state capitals and 9 Sub-offices.

Subsidiaries: Fully owned: Deposit Insurance and Credit Guarantee Corporation of India(DICGC), Bharatiya Reserve Bank Note Mudran Private Limited(BRBNMPL), National Housing Bank(NHB)

Handy Notes : MEDIEVAL HISTORY- Mughals Part 1

Babur

- The foundation of the Mughal rule in India was laid by Babur in 1526.
- He was a descendant of Timur (from the side of his father) and Chengiz Khan (from the side of his mother).
- Babur was invited by Daulat Kahna Lodi and Alam Khan Lodi against Ibrahim Lodi
- Babur defeated Ibrahim Lodhi in the first battle of Panipat on April 21, 1526 and established Mughal dynasty.
- In 1527, he defeated Rana Sanga of Mewar at Khanwa.
- In 1528, he defeated Medini Rai of Chaneri at Chanderi.
- In 1529, he defeated Muhammad Lodhi (uncle of Ibrahim Lodhi) at Ghaghra.
- In 1530, he died at Agra. His tomb is at Lahore. The tomb of only two Mughal emperors are outside India i.e. Babur and Bahadur Shah Zafar
- He was the first to use gunpowder and artillery in India.
- Two gun masters Mustafa and Ustad Ali were in his army
- He wrote his autobiography Tuzuk-i-Baburi in Turki .
- Tuzuk-i-Baburi was translated in Persian (named Baburnama) by Abdur Rahim Khan-e-khana and in English by Madan Bebridge.
- He compiled two anthologies of poems, Diwan (in Turki) and Mubaiyan (in Persian). He also wrote Risal-i-Usaz or letters of Babur.

Humayun (1530-40 and 1555-56)

- He was the son of Babur and ascended the throne in 1530. His succession was challenged by his brothers Kamran, Hindal and Askari along with the Afghans.
- In 1532 he established Tabl-e-adl at Agra.
- He fought two battles against Sher Shah at Chausa (1539) and at Kannauj/Bilgram (1540) and was completely defeated by him.
- He escaped to Iran where he passed 12 years of his life in exile.
- After Sher Shah's death Humayun invaded India in 1555 and defeated his brothers the Afghans. He once again became the ruler of India.
- He died while climbing down the stairs of his library (at Din Panah) in 1556 and was buried in Delhi.
- Abul Fazal calls him Insan-e-Kamil.
- His sister, Gulbadan Begum wrote his biography Humayunama.
- He built Din Panah at Delhi as his second capital.

Sur Empire (Second Afghan Empire) 1540-55

Sher Shah: 1540-45

- He was the son of Hasan Khan, the Jagirdar of Sasaram.
- In 1539, he defeated Humayun in the battle of Chausa and assumed the title Sher Shah as emperor.
- As an emperor, he conquered Malwa (1542), Ranthambhor (1542), Raisin (1543), Rajputana annexation of Marwar (1542), Chittor (1544) & Kalinjar (1545).
- He died in 1545 while conquering Kalinjar.
- Purana Quila was built during his reign
- During his brief reign of 5 years he introduced a brilliant administration, land revenue policy and several other measures to improve economic conditions of his subjects.
- He issued the coin called **Rupiah** and fixed standard weights and measures all over the empire.
- He also improved communications by building several highways. He built the Grand Trunk Road (G.T. Road), which runs from Calcutta to Peshawar. The other roads built during his reign were:

Agra to Mandu

Agra to Jodhpur and Chittor

Lahore to Multan

- He set up cantonment in various parts of his empire and strong garrison was posted in each cantonments.
- According to Abul Fazal the empire of Sher Shah was divided into 63 sarkars or districts.
- The unit of land measurement was "bigha"
- He like Allauddin Khalji introduced Dagh and Chera in the army
- Zamindars were removed and the taxes were directly collected.
- He was buried in Sasaram.

Akbar

- Akbar, the eldest son of Humayun, ascended the throne under the title of Jalaluddin Muhammad Akbar Badshah Ghazi at the young age of 14.
- His coronation took place at Kalanaur.
- Second Battle of Panipat (5 Nov., 1556) was fought between Hemu (the Hindu General of Muhammad Adil Shah) and Biram Khan (the regent of Akbar). Hemu was defeated, captured and slain by Bairam Khan.
- In the initial years of his rule Akbar was first under the influence of his reagent Bairam and then under her mother Maha Manga.
- The period of influence of Maham Anga on Akbar i.e. form

1560-62 is known as the period of Petticoat government.

- Akbar entered into matrimonial alliance with various Rajput kingdoms like Amber, Bikaner, Jaisalmer and Jodhpur
- Other important reforms that were undertaken by Akbar were:

Age of marriage for boys and girls was increased to 16 years and 14 years respectively

Sati was prohibited

- In his 24th year Akbar introduced Dashala system for the collection of land revenue by the state.
- The Mansabdari system under Akbar, divided the Mansabdars into 66 categories. **This system fixed the following service conditions:**

Rank and status

Salary

Number of sawars (horsemen)

- As a revolt against the orthodoxy and bigotry of religious priests, Akbar proclaimed a new religion, Din-i-Ilahi, in 1581. Birbal was the only Hindu who followed this new religion.
- Din-i-Ilahi, however, did not become popular.
- Akbar built Fatehpur Sikri, Agra Fort, Lahore Fort and Allahabad Fort and Humayun's Tomb at Delhi.
- Fatehpur Sikri, place near Agra-it said that Akbar had no son for a long time. Sheikh Salim Chisti, a Sufi saint blessed Akbar with a son who was named Salim/Sheikho Baba (Jahangir). In honour of Salim Chisti, Akbar Shifted his court from Agra to Fatehpur Sikri.
- Tulsidas (author of Ramcharitmanas) also lived during Akbar's period.
- When Akbar died, he was buried at Sikandara near Agra.
- Birbal was killed in the battle with Yusufzai Tribe (1586).
- Abul Fazl was murdered by Bir Singh Bundela (1601).
- Akbar gave Mughal India one official language (Persian).

Jahangir (1605-27)

- Salim, son of Akbar, came to the throne after Akbar's death in 1605.
- He established Zanjir-i-Adal (i.e. Chain of Justice) at Agra Fort for the seekers of royal justice.
- In 1611, Jahangir married Mihar-un-nisa, widow of Sher Afghan, a Persian nobleman who was sent on expedition to Bengal. Later on she was given the title Nurjahan.
- Nurjahan exercised tremendous influence over the state affairs. She was made the official Padshah Begum.
- Jahangir issued coins jointly in Nurjahan's name and his own.
- Jahangir also married Jodha Bai of Marwar.

- In 1608, Captain William Hawkins, a representative of East India Company came to Jahangir's court. In 1615 Sir Thomas Roe, an ambassador of King James I of England also came to his court. He granted permission to the English to establish a trading port at Surat.
- His reign was marked by several revolts. His son Khusrau, who received patronage of 5th Sikh Guru Arjun Dev, revolted against Jahangir (1605). Arjun Dev was later sentenced to death for his blessing to the rebel prince (1606).
- During his last period, Khurram (Shanjahan), son of Jahangir, and Mahavat Khan, military general of Jahangir also revolted (Khurram: 1622-25 and Mahavat Kha : 1626-27).
- He wrote his memories Tuzuk-i-Jahangiri in Persian.
- He was buried in Lahore.

Shah Jahan

- His real name was Khurram, he was born to Jodha Bai (daughter of Raja Jagat Singh).
- Shahjahan ascended the throne in 1628 after his father's death.
- Three years after his accession, his beloved wife Mumtaj Mahal (original name- Arzumand Bano) died in 1631. To perpetuate her memory he built the Taj Mahal at Agra in 1632-53.
- He continued applying tika (tilak) on the fore-head
- He introduced the Char-Taslim in the court
- In addition to Jahangir's empire, Nizam Shahi's dynasty of Ahmadnagar was brought under Mughal control (1633) by Shahjahan.
- Shahjahan's reign is described by French traveler Bernier and Tavernier and the Italian traveler Nicoli Manucci. Peter Mundi described the famine that occurred during Shahjahan's time.
- The Red Fort, Jama Masjid and Taj Mahal are some of the magnificent structures built during his reign.
- Shahjahan's failing health set off the war of succession among his four sons in 1657.

Aurangzeb emerged the victor who crowned himself in July 1658. Shahjahan was imprisoned by his son Aurangzeb in the Agra Fort where he died in captivity in 1666. He was buried at Taj (Agra).

A champion is afraid of losing. Everyone else is afraid of winning.

TRICKY NOTES: How to Learn National Park & Wildlife Sanctuaries

Gujarat (sometimes referred to as the "Jewel of Western India") was founded on 1 May 1960.

The Capital is Gandhinagar

Gujarat High Court (Ahmedabad) is the High Court of the state of Gujarat.

Mountain Range: Girnar, also known as Girinagar (Highest peak in Gujrat) and Aravali Range

The Great Rann of Kutch is a seasonal salt marsh located in the Thar Desert in the Kutch District of Gujarat.

India Folk Dance of Gujarat: Garba Dance, Dandiya Dance, Padhar Dance, Bhavai Dance



Important National Parks and Wild Life Sanctuaries in Gujarat are:

- Gir Wildlife Sanctuary & National Park, Junagadh
- Blackbuck National Park, Velavadar, Bhavnagar
- Marine National Park, Gulf of Kutch
- Vansda National Park, Navsari
- Kutch Desert Wildlife Sanctuary, Kutch
- Wild Ass Sanctuary, Kutch
- National Parks, Junagadh
- Shoolpaneshwar Wildlife Sanctuary, Narmada
- Nal Sarovar Bird Sanctuary, Ahmedabad, Surendranagar

Trick to learn the Parks and Sanctuaries are:

Ku Mar Sho Na ka Gi Van B/W ho gaya

Ku: Kutch Desert Wildlife Sanctuary

Mar: Marine National Park

Sho: Shoolpaneshwar Wildlife Sanctuary

Na: Nal Sarovar Bird Sanctuary

Gi: Gir Wildlife Sanctuary & National Park

Van: Vansda National Park

B: Blackbuck National Park

W: Wild Ass Sanctuary



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THE HINDU REVIEW : SEPTEMBER 2016

1. Cabinet approves dissolution of Central Inland Water Transport Corporation Limited.
2. Union Cabinet approved MoU between CERT-In & CERT-UK in the field of cyber Security
3. Union Cabinet approves Project Development Fund for CLMV countries.
4. Union Cabinet approved the scheme for the grant of Permanent Residency Status (PRS) to foreign investors.
5. To help Indian business explore economic opportunities in Cambodia, Laos, Myanmar & Vietnam (CLMV), the Union Cabinet has given its go-ahead for a Project Development Fund (PDF) with a corpus of Rs 500 crore.
6. The Energy & Resources Institute (TERI) officially appointed former Finance Secretary Ashok Chawla as the new Chancellor of TERI University.
7. The Ministry of Urban Development (MoUD) has signed an MoU with Amar Chitra Katha to publish & distribute a 32-page comic on Swachh Bharat.
8. Goa is the 15th State Assembly to ratify the Bill. With this, 50% of States have passed the Bill paving way for the presidential assent.
9. National Payments Corporation of India (NPCI) has launched a pilot project for Bharat Bill Payment System (BBPS) with 26 Bharat Bill Payment Operating Units (BBPOUs).
10. India jumped 19 places in the Logistics Performance Index to rank 35th in this year's list. The logistics' list was topped by Germany.
11. Sony Pictures Networks India (SPN) & ZEE have entered into definitive agreements to acquire TEN Sports Network & its subsidiaries for \$385 million.
12. India's largest digital payment company in India, MobiKwik has announced coalition with 12 state electricity boards.
13. Under the Government's initiative of affordable LEDs for all (UJALA) scheme, Gujarat has become the 1st state to distribute 2 crore LED bulbs.
14. The Goa government has signed a memorandum of understanding with Google India to promote digital literacy & drive the digital transformation in the state.
15. India's 100-year-old athlete, Man Kaur has won Gold medal at the American Masters Games in the 100-meter dash.
16. SBI Mutual Fund has appointed Anuradha Rao as its Managing Director & Chief Executive.
17. Jharkhand is the first state in the country to have implemented Public Fund Management System (PFMS).
18. Actor Irrfan Khan was honoured with the Entertainer of the Year award by CNBC.
19. The country's economy grew at 7.1 % in the April to June quarter of the current fiscal, According to data released by the Central Statistics Office.
20. The first BRICS film festival held in New Delhi. Minister of State for Information & Broadcasting Rajyavardhan Rathore inaugurated the festival.
21. The Odisha Legislative Assembly today unanimously ratified the Constitution Amendment Bill for Goods & Services Tax (GST).
22. Biocon Chairperson & managing director Kiran Mazumdar Shaw has been appointed 'Chevalier de l'Ordre National de la Legion d'Honneur' (Knight of the National Order of the French Legion of Honour) for her outstanding contribution & dedication to Biosciences & Research field globally.
23. Deep Kumar Upadhyay was re-appointed as Nepal's ambassador to India.
24. The Gujarat government has inked a tripartite MoU with the Ministry of Civil Aviation & the Airport Authority of India (AAI) to develop 11 small airports & airstrips under the Centre's Regional Connectivity Scheme (RCS) to boost regional air connectivity in the State.
25. The Union Government notified National Apprenticeship Promotion Scheme. It is for the first time a scheme has been notified to offer financial incentives to employers. The Scheme has an outlay of 10000 crore rupees with a target of 50 Lakh apprentices to be trained by 2019-20.
26. Railway has launched an insurance scheme for passengers travelling on e- ticket. The insurance cover will be upto Rs. 10 lakh.
27. Union Government has constituted an expert committee to study silt in river Ganga in Bihar. The four-member committee will be headed by Member of Ganga Flood Control commission AK Sinha.
28. Carnatic singer T.M. Krishna & campaigner for eradication of manual scavenging Bezwada Wilson — were among six persons who received the prestigious Ramon Magsaysay prize for 2016.
29. Odisha CM, Naveen Patnaik, would share his thoughts on different issues through the radio for 10 minutes every month.
30. Michel Temer, Brazil's former vice president, has been sworn in as the country's new president.
31. Madhukar Gupta committee was formed to review security at India-Pakistan border submitted its report to Home Minister Rajnath Singh.
32. The two-day long "BRICS Convention on Tourism" held at world heritage site Khajuraho in Madhya Pradesh.
33. Zaheer Khan has been inducted as an Honorary Life

Member of the Marylebone Cricket Club (MCC). He is the third Indian player to receive the distinction this year after Virender Sehwag & Anjum Chopra.

34. Uzbek President Islam Karimov has died at the age of 78. Islom Karimov was the first President of Uzbekistan, in office from 1990 to 2016.
35. The Puducherry & Rajasthan Legislative Assembly have unanimously ratified the Constitution Amendment Bill for Goods & Services Tax (GST).
36. A SpaceX Falcon 9 rocket exploded on its Cape Canaveral launch pad during a test, destroying a commercial satellite that Facebook had planned to use to extend Internet access in Africa.
37. Union Bank of India has launched USSD (unstructured supplementary service data) based '*99#' mobile application on Google Play Store.
38. DCB Bank has launched 'mVisa', a mobile-based payment solution that will make payments at retail outlets much easier.
39. Justice S.N. Dhingra has submitted a 182-page report to the Haryana government on granting of Change of Land Use (CLU) licences in 4 villages of Gurgaon during the rule of the previous Congress government, hinting at irregularities.
40. Australia's oldest surviving Test cricketer, Len Maddocks, has passed away aged 90.
41. Martial arts expert & actor Jackie Chan will receive a lifetime achievement Oscar. The announcement was made by the Academy of Motion Picture Arts & Sciences.
42. Noted Assamese poet, literary critic & author & winner of the Sahitya Akademi award Nalinidhar Bhattacharyya passed away in Guwahati
43. As part of his three--day visit to Kerala, Vice President Mohammad Hamid Ansari inaugurated the fourth phase of the Vidyadhanam project, piloted by Prof. K. V. Thomas Vidyadhanam Trust at St.Teresa's College.
44. The Competition Commission of India (CCI) imposed penalty of over Rs 6,700 crore on 10 cement companies.
45. State-run BHEL has commissioned the fourth & last unit of the 4x40 MW Teesta Low Dam Hydro Electric Project (HEP) Stage-IV in West Bengal.
46. Cardiologist K K Aggarwal has been unanimously elected as the National President of the Indian Medical Association for the year 2016-17.
47. Bangladesh Cricket Board (BCB) named former Sri Lankan middle-order batsman Thilan Thusara Samaraweera as their batting consultant for next month's home series against England.
48. Kerala government has appointed the Cricket star Sachin Tendulkar as brand ambassador for anti- liquor & anti-drug campaign in the state.
49. Odisha Chief Minister Naveen Patnaik launched the 'Biju Kanya Ratna Yojana' (BKRY) & inaugurated 1,000 anganwadi buildings here as part of the celebration marking birth centenary of legendary Biju Patnaik.
50. The Rajasthan High Court launched the e-stamp facility in its Jodhpur & Jaipur benches simultaneously. Rajasthan has become the fourth state in the country to provide the facility.
51. Lt. Governor Kiran Bedi has launched 'Shramdaan movement' as part of Swachh Bharatand Swachh Puducherry initiative at a remote village
52. The Jan Sikshan Sansthan (JSS), Malappuram, has won the Unesco Confucius Prize for Literacy.
53. Noted Odia poet Dr Hrushikesh Mallick will be honoured with the 37th edition of prestigious Sarala Award for his outstanding poetry.
54. Anil Khanna, President of Asian Tennis Federation & Vice President of International Tennis Federation, elected as the Honorary Life President of the All India Tennis Association (AITA).
55. Rio Olympics bronze medalist Sakshi Malik has been appointed as Wrestling Director at Maharshi Dayanand University in Rohtak.
56. American tech giants Microsoft, Google & Salesforce have officially adopted the EU-US Privacy Shield framework. It will enable them to receive personal data from the European Union (EU) in compliance with the new standards.
57. Abhinav Bindra, India's lone individual Olympic gold medallist, has officially announced his retirement from shooting.
58. Mother Teresa is being declared a saint by Pope Francis today at a canonisation ceremony in Vatican City.
59. An important road in Bhubaneswar was named after Mother Teresa coinciding with her canonisation ceremony at the Vatican city.
60. India Post has released a commemorative postage stamp on Mother Teresa to celebrate the canonisation of her as saint, Mumbai. Union Minister of State for Communications Manoj Sinha unveiled the postage stamp.
61. Rio Olympics medalists PV Sindhu & Sakshi Malik, besides olympian Dipa Karmakar are likely to be the new faces of Swachh Bharat Mission.
62. Mukund Chaudhari has been took over as Chairman & Managing Director (CMD) of MOIL Ltd, a miniratna company.
63. Canada's British Columbia province has become the first foreign government to issue of masala bonds, a rupee-denominated bond. It had issued Rs 500 crore rupee

denominated overseas bonds (masala bond) on the London Stock Exchange (LSE) & successfully raised \$75 million (about Rs 500 crore).

64. In Haryana, village Gumthala Garhu near Pehowa in Kurukshetra district has become the first Wifi hotspot village in Haryana circle under bulk plan of BSNL.
65. DCB Bank, a new-generation private sector bank, has announced the launch of mVisa, a mobile based payment solution that will make payments at retail outlets much easier.
66. In Bangladesh, Jamaat-e-Islami leader & media tycoon, Mir Quasem Ali was executed last night for war crimes committed during the country's 1971 Liberation War.
67. In Tennis, world number one Serena Williams has created history by setting a record of most number of Grand Slam matches wins by a woman in the Open era.
68. Infosys said it entered into a joint venture with the Saudi Prerogative Company to offer IT services in the middle eastern country.
69. The Karnataka State Wildlife Board, chaired by Chief Minister Siddaramaiah, has decided to declare Ankasamudra tank as a bird conservation reserve.
70. Goa will host a three-day bird festival from November 11 to 13.
71. Maharashtra ranked highest according to a broad measure of Ease of Doing Business (EDB) in Indian states announced at the Lee Kuan Yew School of Public Policy
72. Assam-based ecologist & conservation activist Bibhuti Lahkar has become the first Asian to be awarded the prestigious 'Heritage Heroes Award' by the International Union for Conservation of Nature (IUCN).
73. Noted Kudankulam Nuclear Power Project Director R S Sundar was elevated to the post of Distinguished Scientist, in honour for his meritorious service.
74. Former Australian cricket captain Ricky Ponting has been appointed the brand ambassador of his home state Tasmania.
75. German Formula One racing driver Nico Rosberg won the Italian Grand Prix after close battle with his teammate Lewis Hamilton who also drive for the Mercedes AMG.
76. Tamilnadu based tennis player Sriram Balaji who ranked 546 restrained top seed Seong Chan Hong of Korea by 6-4, 7-6(3) for the title in the \$10,000 (International Tennis Federation) ITF men's Futures tennis tournament held in Hua Hin Thailand.
77. Urjit Patel has assumed charge as the 24th Governor of the Reserve Bank of India (RBI). He succeeds Raghuram Rajan, whose 3-year term came to end on September 4.
78. The United Kingdom (UK) has appointed an ambassador to Iran for the first time since 2011, as part of its aims for more productive co-operation. Nicholas Hopton, a former British ambassador to Qatar & Yemen, will take up the role.
79. World's oldest cricketer, Lindsay Tuckett, passed away in Bloemfontein at the age of 97.
80. Indian mixed doubles pair of Sikki Reddy & Pranaav Jerry Chopra clinched their maiden Grand Prix title, bagging the Brazil Open Title.
81. Haryana Government has decided to develop 340 villages as Horticulture Villages at a cost of 93 crore rupees during the Golden Jubilee year of the State. It has also decided to establish 140 clusters in these villages.
82. On the occasion of the 55th Teachers' Day Chief Minister Sarbananda Sonowal inaugurated Asia's biggest digital library dedicated to the memory of Dr. APJ Abdul Kalam, former President of India, in NIT Silchar.
83. In a remarkable public health achievement, Sri Lanka was certified by WHO on having eliminated malaria
84. MobiKwik, fin-tech player has launched one-step offline payments with 'Bubble Pin'.
85. Rajasthan's education department has partnered with US-based technology firm Cisco to promote digital learning across the state using virtual digital room solutions.
86. The government of Arunachal Pradesh has roped in Bollywood bighead John Abraham as a brand ambassador for state tourism to boost tourism
87. Garden Reach Shipbuilders & Engineers Limited (GRSE) handed over the Water Jet Fast Attack Craft (WJFAC), "TIHAYU" to Indian Navy.
88. Agra-based Young Racer Shahan Ali Mohsin has become the first Indian to win the Asian Karting Championship held in Malaysia.
89. Serena Williams now owns more victories in Grand Slam matches than anyone else in tennis' Open era. The 35-year-old tennis ace surpassed Roger Federer with her 308th win.
90. Bandaru Dattatreya, the Minister of State for Labour & Employment inaugurated the first phase of Tele-medicine services of ESIC in New Delhi for providing specialist medical services at a distance to insured workers.
91. The Union Minister of State Dharmendra Pradhan has launched Gas4India campaign for the aimed at promoting the use of gas in the country.
92. The government has approved projects worth over Rs. 450 crore under 'Swadesh Darshan' scheme for five states.
93. The 11th Summit of the Group of Twenty (G20) concluded in the eastern Chinese city of Hangzhou. The theme of 2016 G20 Summit was Toward an Innovative, Invigorated, Interconnected & Inclusive World Economy.
94. 22-year-old Indo-Japanese, Priyanka Yoshikawa crowned as

Miss Japan.

95. Nawazuddin Siddiqui won the Best Actor award for his role in 'Manjhi-The Mountain Man'. Tannishtha Chatterjee won the award for her role in 'Rough Book'.
96. Intel has acquired computer vision firm Movidius, which partnered with Google to develop 3D space mapping technology for Project Tango devices.
97. India & Chile have expanded their Preferential Trade Agreement with both offering to lower or eliminate tariffs on a number of items traded with each other.
98. Centre has launched a new program called National Initiative for Developing & Harnessing Innovations (NIDHI) for nurturing ideas & innovation into successful start ups.
99. National award winner & veteran director K G George has been selected for the JC Daniel award 2015, Kerala Government's highest honor for outstanding contribution to Malayalam cinema.
100. The Health Ministry has launched the Leprosy Case Detection campaign in the country. The main Objective of the campaign is to detect the disease early so that those affected can be saved from physical deformity.
101. Indian film Thithi won the best film award at the BRICS Film Festival concluded in New Delhi. Best Director Award went to Huo Jianqi of China.
102. India has received certificates from World Health Organisation recognising the elimination of Yaws & Maternal & Neonatal Tetanus (MNT) from the country.
103. Religare Enterprises Limited (REL) has appointed Sunil Godhwani as its Chief Executive Officer (CEO).
104. Scientists have discovered a new Ghost Snake Species of elusive, pale grey reptiles dwelling at the Ankarana National Park in Madagascar. The findings were published in the journal Copeia.
105. The 2016 Summer Paralympic Games began on 7 September 2016 at Maracana Stadium in Rio de Janeiro, Brazil. The fifteenth Summer Paralympic Games will conclude on 18 September 2016.
106. The UN Charter, the seminal treaty of the United Nations, has now been translated into Sanskrit.
107. The Department of Telecom (DoT) has created 'Urja Mitra Helpline' through which customers can get information on power outages from distribution companies by dialling 14401.
108. Hindustan Aeronautics Limited (HAL) has successfully completed test flight of indigenous Light Utility Helicopter (LUH) Bengaluru.
109. Union Minister of State for Labour & Employment Bandaru Dattatreya inaugurated the first phase of telemedicine services of Employees State Insurance Corporation (ESIC) for providing specialist medical services at a distance to insured workers.
110. ISRO launched the advanced weather satellite, INSAT-3DR, using the geosynchronous launch vehicle GSLV-F05, from the Satish Dhawan Space Centre in Sriharikota.
111. India, Kazakhstan joint bilateral military exercise PRABAL DOSTYK-16 began in Karaganda region of Kazakhstan.
112. The Centre has announced a financial package for Andhra Pradesh that includes full funding of Pollavaram irrigation project, tax concessions & a special assistance, but stopped short of giving the state a special category status.
113. Prime Minister Narendra Modi addressed the 14th ASEAN Summit held in Vientiane, Laos.
114. India has inked a preliminary pact with Greece for bilateral Air Services Agreement that proposes to allow unlimited points of call for domestic airlines in the European nation.
115. Satbir Singh, presently Additional Secretary in the Ministry has been appointed as the next Ambassador of India to the People's Democratic Republic of Algeria.
116. Senior BJP leader Om Prakash Kohli has been sworn in as the 26th governor of Madhya Pradesh.
117. President Pranab Mukherjee has signed the GST Constitution Amendment Bill thereby making it a law. GST Bill has been ratified by the Parliament, as well as 16 states.
118. Sikkim has been adjudged the cleanest state while Jharkhand comes last in the list of 26 states.
119. The Uttar Pradesh govt has rolled out 122 Twitter handles & service would help the UP police to strengthen its primary relationship with the citizens.
120. PepsiCo CEO & Chairman Indra Nooyi was ranked 2nd on the list of Fortune's 51 Most Powerful Women list. The list is topped by Mary Barra, CEO & Chairman of General Motors.
121. ICICI Bank, has announced the deployment of 'Software Robotics' in over 200 business processes across various functions of the bank.
122. The Andhra Pradesh Legislative Assembly has passed a resolution supporting the Constitution Amendment & the Goods & Services Tax Bill.
123. Himachal Pradesh cabinet decided to amend the Hydropower Policy 2006 in respect to transfer of shares by Himachalis to non-Himachalis.
124. CK Asnani has assumed charge as the Chairman & Managing Director (CMD) of Uranium Corporation of India Limited (UCIL), an undertaking of the Department of Atomic Energy.
125. Henkel elevates Shilip Kumar as president of its India business
126. German consumer giant Henkel has elevated Shilip Kumar as president of its India business.
127. Author Stuart Blackburn's "Into the Hidden Valley", a book

based on Apatani tribe of Arunachal Pradesh, won the MM Bennetts Award for Historical Fiction 2016 in the UK.

- 128.**The Odisha government has launched the construction workers pension scheme.
- 129.**Chhattisgarh Government has inked a MoU with the Ministry of Civil Aviation to boost regional air connectivity with in the state.
- 130.**For maintaining the records & data base of Indian students studying abroad, Government of India has launched a Student Registration module in MADAD portal (madad.gov.in).
- 131.**Union Home Minister Rajnath Singh has been commissioned the offshore patrolling (OPV) vessel, Sarathi, at Goa Shipyard Ltd (GSL), the defence shipyard in south Goa.
- 132.**Former IAS officer J Satyanarayana has appointed as part-time chairperson of Unique Identification Authority of India (UIDAI).
- 133.**Jayant Purushottam Gokhale has been appointed as director of Syndicate Bank.
- 134.**Mexico has set up its consulate in south India in Chennai that will cater to Tamil Nadu, Kerala, Karnataka, Andhra Pradesh & Telangana.
- 135.**The US space agency, NASA has launched its first mission to collect samples from an asteroid & return them to Earth in hopes of learning more about the origins of life.
- 136.**Nagaland Chief Minister T R Zeliang has received 'Pangkor Dialogue Award 2016' in Malaysia for the efforts made by the people of the state for environmental preservation & promotion.
- 137.**China has claimed that it has successfully developed & tested a radar system that uses quantum entanglement to beat the stealth technology of modern military aircrafts.
- 138.**The Laser Interferometer Gravitational-wave Observatory (LIGO) project that was given the in-principle approval by the Union Cabinet may come up in Maharashtra's Hingoli district.
- 139.**Indian para high jumpers Mariyappan Thangavelu & Varun Bhati won gold & bronze medals respectively, in the T42 category at the Rio Paralympics
- 140.**Explosive West Indies opener Chris Gayle launched his autobiography 'Six Machine, which contains extensive details about his life & career.
- 141.**Dilip Kumar Mandal has been appointed managing director & chief executive officer of IDBI Asset Management Company (AMC).
- 142.**Former Pakistan Test captain Wasim Bari has been appointed as the new manager of the national team for the coming 'home' series against the West Indies in the UAE.
- 143.**Army Green on has won the 128th edition of Durand Cup football title. Army Green defeated Neroca FC 6-5 via penalty shoot outs.
- 144.**Central Board of Direct Taxes (CBDT) has launched e-nivaran (electronic resolution) facility for online redressal of taxpayers' grievances.
- 145.**The 2-day Indo-US Economic Summit held in New Delhi on September 13.
- 146.**Bakytzhan Sagintaev appointed as Prime minister of Kazakhstan.
- 147.**Qatar National Bank (QNB) has received approval from India's regulatory authorities to open a branch in the country & begin operations.
- 148.**British surgeons have successfully performed the world's first robotic operation inside the eye.
- 149.**Great Britain's Jamie Murray & Brazil's Bruno Soares won their second Grand Slam doubles title, defeating Spaniards Pablo Carreño Busta & Guillermo García-López. German professional tennis player Angelique Kerber won her first U.S. Open title & the second Grand Slam trophy of her breakthrough season.
- 150.**Vietnam won its first-ever Paralympic gold medal after para weightlifter Le Van Cong lifted 183 kgs, to set a new world record at the event.
- 151.**Renowned Yog Guru & founder of Patanjali group Baba Ramdev has laid the foundation stone of his dream project Patanjali Mega Food & Herbal Park in Mihan area which is located at outskirts of Nagpur.
- 152.**As part of the ongoing Indo-US defence cooperation, a joint military training exercise, 'Yudh Abhyas 2016' is set to be conducted in Uttarakhand from September 14 to 27.
- 153.**Arunachal Pradesh governor Jyoti Prasad Rajkhowa was removed from the office by President Pranab Mukherjee.
- 154.**BJP leader Subramanian Swamy has been honoured with 'Tamil Ratna' award by a body of Tamil diaspora in New York for fighting corruption & working for more transparency in the functioning of the government.
- 155.**A revenge drama Ang Babaeng Humayo (The Woman Who Left) won the Golden Lion for Best Film Award at the 73 Venice Film Festival.
- 156.**The government has launched a toll-free number 1924 to register postal complaints.
- 157.**Mandi in Himachal Pradesh & Sindhudurg in Maharashtra have emerged the cleanest districts in India according to a report released in New Delhi by Drinking Water & Sanitation Minister Narendra Singh Tomar.
- 158.**Himachal Pradesh government has signed a preliminary MoU with Singapore government for developing a smart integrated township in Jathiadevi near Shimla airport.
- 159.**Union Minister of State for Ayush (Independent Charge) Shri

Shripad Yesso Naik & Union minister for Fertilisers & Chemicals & Parliamentary Affairs Shri Ananth Kumar inaugurated the National Fair on comprehensive Indian Medicine system (AROGYA) in Bengaluru.

- 160.**The government has issued fresh flexi-fund guidelines that will give more freedom to states in spending money under the Centrally Sponsored Schemes (CSS) to meet local developmental requirements.
- 161.**Union Cabinet under the Chairmanship of Prime Minister gave approval for the MoU between India & Kenya on cooperation in the field of National Housing Policy Development & Management (NHPDM).
- 162.**The Union Cabinet has approved the formation, process & functioning of the Goods & Services Tax (GST) Council.
- 163.**The Cabinet Committee on Economic Affairs (CCEA) has approved the proposal for initiation of the Third Phase of Technical Education Quality Improvement Programme (TEQIP).
- 164.**Kerala Chief Minister Pinarayi Vijayan has inaugurated the Onam celebrations in Thiruvananthapuram.
- 165.**Stan Wawrinka defeated world number one Novak Djokovic to claim a 3rd Grand Slam title at the US Open tennis tournament.
- 166.**The Cabinet has approved the creation of the Higher Education Financing Agency (HEFA), taking a step closer to developing high-quality infrastructure in premier educational institutions.
- 167.**Realty player Wadhwa Group has tied-up with e-commerce platform Sanpdeal to make its properties accessible to customers online.
- 168.**Environment ministers of the BRICS nations will meet in Goa on September 16.
- 169.**Global citizen which is an international social action platform was flagged off by Chief Minister Devendra Fadnavis under the 'Global Citizen India' initiative. The initiative looks forward to mobilise social change in the country.
- 170.**In Andhra Pradesh, the 3rd BRICS Urbanisation Forum Meet held in the Visakhapatnam.
- 171.**One Thousand Hockey Legs, an NGO which seeks to introduce the game of hockey to school kids in India, was awarded the Rashtriya Khel Protsahan Puruskar by President Pranab Mukherjee.
- 172.**Javelin thrower Devendra Jhajharia became the first Indian to clinch two gold medals at the Paralympics after he broke his own world record to clinch the top honours at the Rio Games.
- 173.**Spiritual leader Sri Sri Ravi Shankar will be honoured with a humanitarian award by a prominent Jewish human rights organisation for promoting human dignity, interfaith relations & tolerance among people.
- 174.**Andhra Pradesh has become the second state in the country after Gujarat to achieve 100 per cent electrification of households.
- 175.**Cabinet has approved Extradition Treaty between India & Afghanistan
- 176.**Cabinet has approved Bilateral Technical Arrangement between India & Switzerland
- 177.**Cabinet has approved an extension of the contract between India & the International Seabed Authority.
- 178.**Cabinet has approved MoU between India & Kenya on cooperation in the field of National Housing Policy
- 179.**India's top women bankers, SBI chief Arundhati Bhattacharya, ICICI head Chanda Kochhar & Axis Bank CEO Shikha Sharma, are among the 50 most powerful women based outside the US, according to a list by Fortune, which is topped by Banco Santander's boss Ana Bot.
- 180.**World's longest bullet train network length of 2000kms established by China Railway.
- 181.**Meghalaya Governor V Shanmuganathan was sworn in as the governor of Arunachal Pradesh.
- 182.**105-year-old Kunwar Bai, who was felicitated by Prime Minister Narendra Modi for building toilet by selling off her goats, has been chosen as the 'Swachh Bharat Abhiyan' mascot.
- 183.**Union of European Football Associations (UEFA) elected Aleksander Ceferin to succeed Michel Platini as president.
- 184.**State Bank of India, Punjab National Bank, IDFC Bank, & digital wallet Paytm will start issuing electronic tags to vehicles for toll collection.
- 185.**HP Inc. agreed to buy Samsung Electronics Co.'s printer business for \$1.05 billion.
- 186.**Anoop Kumar Sharma has taken charge of the post of CMD, Shipping Corporation of India (SCI) with effect from September 12, 2016 for a period of three years.
- 187.**Digital payment platform FreeCharge in partnership with Axis Bank has launched Unified Payments Interface (UPI) that allows instant transactions from a smartphone using a virtual payment address (VPA).
- 188.**Global online payment service provider PayU has acquired Indian payments technology player, Citrus Pay, for \$130 million
- 189.**Uttarakhand Governor K K Paul has released a book titled 'Shanti ki Talaash mein Zindagi' written in Hindi by Haridwar-based author & journalist Radhika Nagrath.
- 190.**Actor Ewan McGregor will receive the Britannia Humanitarian Award at the British Academy Britannia Awards in California next month.

- 191.** Writer Meghna Pant will be honoured with Kumaon Literary Festival's FON (Fellows of Nature) South Asia Short Story Award in Nature writing in October for her short story "People of the Sun."
- 192.** Gionee mobile phones would now be manufactured in Haryana as the company has been signed an MoU with the state government to set up its phone manufacturing hub with an initial investment of Rs 500 crore which, later on, would be increased to Rs 1,500 crore.
- 193.** Private sector Axis Bank has tied up with Banaras Hindu University (BHU) to offer specialised banking courses.
- 194.** The Department of Animal Husbandry, Dairying & Fisheries in the Ministry of Agriculture & Farmers welfare has declared India free from Avian Influenza (H5N1).
- 195.** The Uttar Pradesh govt. has appointed Bollywood actor Nawazuddin Siddiqui as the brand ambassador of its flagship programme 'Samajwadi Kisan Beema Yojana'.
- 196.** Jim Yong Kim is heading for another five-year term as president of the World Bank.
- 197.** Bollywood queen Priyanka Chopra is in the top 10 in Forbes magazine's annual list of best-paid television actresses. Colombian-American actress Sofia Vergara topped the rich.
- 198.** The United States has signed a 38 billion dollars deal with Israel to provide the country with military assistance over a 10-year period.
- 199.** Japanese automobile maker Isuzu has announced top-level changes in its Indian operations with Hiroshi Nakagawa taking over as the Chairman of Isuzu Motors India (IMI).
- 200.** BHVS Narayana Murthy, an expert in Avionics has been appointed as Director, Research Centre Imarat (RCI), Defence Research Development Organisation (DRDO), Hyderabad.
- 201.** Vice-President Hamid Ansari will be representing India at the upcoming 17th Summit of the Non-Aligned Movement (NAM) to be held at Margarita Island in Venezuela from September 17-18.
- 202.** Gautam Gambhir-led India Blue has won the inaugural day/night Duleep Trophy Cricket tournament held in Greater Noida.
- 203.** The State Bank of India (SBI) has raised \$300 million (about Rs. 2,000 crore) through AT-1 Basel III-compliant bonds to fund its business growth.
- 204.** Indian-American physician-author, Abraham Verghese, whose work has emphasised empathy in medicine, has been selected for the prestigious 2015 National Humanities Medal.
- 205.** Anil Ambani-led Reliance Communications & Maxis Communications Berhad (MCB), promoters of Aircel, agreed to merge their wireless businesses to form the fourth largest telecom operator in the country.
- 206.** Quikr has acquired the largest & highest quality players in beauty services Staygand. It was the Quikr's 8th acquisition in 2016.
- 207.** Praj Industries, a Pune-based global process solutions leader, was partnered with Indian Oil Corporation, India's flagship National Oil Company, for setting up multiple second Generations (2G) bio-ethanol plants based on indigenously developed technology.
- 208.** Transportation app Uber has launched a new initiative in partnership with Maruti Suzuki & National Skill Development Corporation (NSDC) for creating livelihood opportunities for one million people by 2018.
- 209.** Typhoon Meranti was the world's strongest typhoon made landfall in east China's Fujian Province, causing widespread destruction.
- 210.** The Government has formally notified the GST Council, which will decide on the tax rate, exempted goods under the new taxation regime.
- 211.** Nadia Murad, a former ISIS captive, has been named the UN's new Goodwill Ambassador for the Dignity of Survivors of Human Trafficking.
- 212.** Atul Kumar Goel, General Manager, Allahabad Bank, has taken charge as Executive Director in Union Bank of India.
- 213.** Sports Minister Vijay Goel conferred Arjuna Awards on cricketers Rohit Sharma & Ajinkya Rahane at a function in New Delhi. Sharma was given the award for 2015 & Rahane for 2016.
- 214.** Legendary playwright Edward Albee, widely considered one of the greats of his generation, has died at the age of 88.
- 215.** Former Italian president, prime minister & central bank governor Carlo Azeglio Ciampi has died at the age of 95.
- 216.** Vijaya Bank has bagged the second prize under Rajbhasha Kirti Puraskar (Region C) for the year 2015-16.
- 217.** India will host the Annual Meetings of the African Development Bank (AfDB) Group in May next year.
- 218.** A joint military training exercise of Indian & US Armies, Exercise YUDH ABHYAS 2016, commenced at Chaubattia, Uttarakhand with the Opening Ceremony.
- 219.** Dharwad-headquartered Karnataka Vikas Grameena Bank has bagged four awards for inclusive insurance for 2016 from Skoch Group.
- 220.** All India Radio (AIR) has been launched a website & mobile app for its Balochi service to reach people who speak this language across the globe.
- 221.** India has slipped by 10 positions to 112th, out of 159 countries & territories, according to the Economic Freedom of the World: 2016 Annual Report. Hong Kong has the highest level of economic freedom worldwide.

CURRENT AFFAIRS ZINGER : AUGUST 2016

1ST AUGUST TO 6TH AUGUST

1. Name the German captain, who has announced his retirement from international football?
2. With which country India have agreed to enhance cooperation on anti-terror efforts "side-by-side" with it in fighting terrorists?
3. The first woman chief of aviation regulator _____ was named as the new Union Labour Secretary recently?
4. Which Japanese payments company has installed 600 automatic teller machines with cash recycling abilities for SBI?
5. The Centre government announced the formation of District Development Coordination & Monitoring Committee (DDCMC) to be named _____ for effective development coordination.
6. Name the tabla maestro, who has recently passed away in Varanasi at the age of 72?
7. Name the Indo-Thailand Military Exercise, which concluded Krabi, Thailand.
8. Intex Technologies has announced whom as its Brand Ambassador for its new range of consumer durable products?
9. India has approved how much loan for Sri Lanka Railways to upgrade its communications system & rolling stock in the Tamil-dominated north?
10. Name the person, who has commissioned into the Territorial Army as a Lieutenant?
11. Centre has sanctioned nearly how much crore to Uttar Pradesh as assistance for the recent drought situation in the state?
12. Name the state which has signed a MoU with NTPC & NHPC for setting up Hydro Engineering College in the state?
13. Which state government has launched 'Pashudhan Bima Yojana' recently?
14. Andhra Pradesh's Chief Minister N Chandrababu Naidu has launched 'Mission Harita &hra Pradesh with the objective to increase the green cover in the state to 50 per cent by the year?
15. Name the senior IRS officer, who is set to be appointed as the new Central Board of Direct Taxes (CBDT) Chairperson.
16. Which company announced that it has entered into a definitive agreement to acquire NetSuite, the very first cloud company?
17. Centre government has decided to organise a Make in India conference in which city?
18. Railway Minister Suresh Prabhu has flagged off the maiden broad gage train service between which two stations recently?
19. Name the country which is going to host the 2016 Kabaddi World Cup.
20. Which state tourism has bagged six National Tourism awards for 2014-15 in the marketing category for states?
21. Which bank raised Rs. 30 billion (\$450 mn) by issuing the world's first ever "Masala" or rupee-denominated bond outside India in London Stock Exchange (LSE)?
22. Name the Mobile payments company, which has announced the partnership with IRCTC's app for power e-cash payments on IRCTC's e-catering app, Food on Track.
23. Which Bank has introduced home loan products for central/state government/ public sector undertaking employees & defence personnel?
24. Who won the fourth edition of STAR Sports-ProKabaddi League?
25. Oracle India announced a corporate citizenship collaboration with which Bank & launched the 'D-Change' programme?
26. Who has won the 2016 German Grand Prix title?
27. The Indian Railway Catering & Tourism Corporation (IRCTC) is set to launch the facility of travel insurance for passengers who book tickets on its website. The service, scheduled to come into effect from September, can be availed at a premium of?
28. Who won the fourth Rogers Cup championship recently?
29. Name the person, who has sworn-in as the Chief Justice of the Allahabad High Court.
30. In which country, seventh meeting of SAARC Immigration Authorities has begun?
31. Which state government has decided to recruit members of transgender community persons as warders in jails?
32. Name the person who has been appointed as the secretary to Prime Minister recently?
33. Which Institution with Apollo Medskills has launched a certificate programme in general management for healthcare professionals?
34. Name the private sector banks that has inked an MoU with Apollo India Credit Opportunity Management LLC & AION Capital Management to set up an asset reconstruction company recently?
35. Which country will host a crucial global summit in November, 2016 to eliminate the illicit trade of tobacco products in which delegates from 180 countries will take part?
36. Which public sector bank has tied up with a fintech start-up Fisdrom for personal wealth management services?
37. Name the person who has been appointed as the Managing Director of Mondelez India recently?
38. The World Economic Forum will host its annual India Economic Summit on October 6-7 in which city?
39. Who was elected by lawmakers as Nepal's Prime Minister for a second time?
40. Name the Egyptian-born Nobel-winning scientist, who has died in the United States recently?
41. Which bank will offer overdraft & loan facilities to nearly 700,000 account holders who have enrolled with it through the Pradhan Mantri Jan Dhan Yojana (PMJDY)?
42. State-run Bharat Heavy Electricals Ltd (BHEL) has

commissioned the second 500 Mw (megawatt) thermal unit at Marwa Thermal Power Station in Janjgir-Champa district of?

43. Which company has announced investing \$4 million (Rs.27 crore) in Cloudyn, an Israeli corporation?
44. The BCCI has appointed whom as the head of a 4-member legal panel to help it understand the implications of the Justice Lodha Committee reforms.
45. The Rajya Sabha has overwhelmingly passed which Constitution Amendment Bill, 2014 to facilitate rollout of the Goods & Services Tax (GST) in the country.
46. Name the Former Ferrari driver of New Zealand who has passed away recently.
47. Who has been appointed as General Manager, Integral Coach Factory recently?
48. To curb illegal & unauthorised pooling of funds by unscrupulous firms, the RBI launched which website?
49. Rajasthan's Chief Minister Vasundhara Raje laid the foundation of 14 projects worth Rs 2,229 Crore in which city?

ANSWERS

1. Bastian Schweinsteiger
2. Bangladesh
3. M Sathiyavathy
4. OKI
5. Disha
6. Pandit Lacchu Maharaj
7. MAITREE
8. Madhuri Dixit
9. \$318 million
10. Anurag Thakur
11. Rs. 620 crore
12. Himachal Pradesh
13. Haryana
14. 2029
15. Rani Singh Nair
16. Oracle
17. Bhubaneswar, Odisha
18. Agartala to New Delhi

19. India
20. Kerala
21. HDFC Bank
22. MobiKwik
23. State Bank of India
24. Patna Pirates
25. State Bank of India
26. Lewis Hamilton
27. Re 1
28. Novak Djokovic
29. Justice Dilip Babasaheb Bhosale
30. Islamabad, Pakistan
31. Odisha
32. Bhaskar Khulbe
33. IIM, Bengaluru
34. ICICI Bank
35. India
36. Bank of Baroda
37. Deepak Iyer

38. New Delhi
39. Pushpa Kamal Dahal 'Prachanda'
40. Ahmed Zewail
41. SBI
42. Chhatisgarh
43. Infosys Limited
44. Markandey Katju
45. 122nd
46. Chris Amon
47. Sudhanshu Mani
48. sachet.rbi.org.in
49. Jaipur
50. Laos
51. Dr. Tarun Ramadorai
52. Swaroop Gowda
53. Assam
54. Paytm
55. Nita Ambani
56. Karnataka Bank Ltd

50. Cabinet given its approval for signing of new Air Services Agreement (ASA) between India & which country?
51. The RBI (RBI) has set up a committee to look at the various facets of household finance in India which will be chaired by?
52. Name the boy, who has set the Guinness world record for covering longest distance by limbo-skating under cars?
53. ONGC & Oil India Ltd made a payment of Rs.300.64 crore & Rs.1,149.24 crore respectively to which state Government?
54. Future Group has tied up with which mobile payments & commerce platform to enable its users to shop for Big Bazaar?
55. Who was elected as an individual member of International Olympic Committee (IOC) recently?
56. Which bank has launched 'KBL POS Manager' mobile app to provide ease & convenience for its point-of-sale (POS) merchant establishments.

7TH AUGUST TO 20TH AUGUST

1. PM inaugurated the first phase of Mission Bhagirath programme to supply drinking water to each household in Gajwel Assembly constituency in which state?
2. Which state government has launched an online service for consumers to apply for low-tension service connections?
3. Which country has launched its first mobile telecommunications satellite?
4. Who has taken oath as the 16th Chief Minister of Gujarat?
5. Kerala Tourism has rolled out a promotional campaign in which country targeting Arab travellers & showcasing the state's backwaters & waterfalls on taxis?
6. Which state has launched a new website of the state Home department to enable the differently-abled persons to see &

hear the website?

7. The Union Government has set an inflation target of how much percent for the next five years with a range of plus/minus 2 % for the next five years?
8. The Ministry of Railways has signed an agreement with which state government for formation of a joint venture (JV) company for focussed resource mobilisation, implementation & monitoring of critical rail projects?
9. In which country, voters have approved a new draft constitution, giving extra powers to the military?
10. Which state has launched a special assistance scheme for elderly weavers to mark the National Handlooms Day?
11. Who created history after she became the first Indian to qualify for the apparatus finals of artistic Gymnastics at the Rio 2016 Olympics?

12. A new Guinness World Record for the most robots dancing simultaneously has been set in which country?
13. Who has appointed in the bank's board in IDFC Bank?
14. Which insurance Company has launched political risk insurance policy, whereby companies operating internationally will be protected against the adverse effects of arbitrary government?
15. Which bank has launched fund transfer based on 'Aadhaar Number through NUUP', using an ordinary mobile phone without internet connection recently?
16. Prime Minister Narendra Modi is to launch the Yaad Karo Kurbani celebrations at the birthplace of freedom fighter Chandra Shekhar Azad at Alirajpur in which state?
17. As per the Chairman & Managing Director of Jute Corporation of India, the organization has been entrusted with the task of launching the week-long "Colours of Independence" campaign in?
18. Name the former Arunachal Chief Minister, who was found dead at his residence in Itanagar?
19. The Wildlife Institute of India (WII) will house the India's first repository on tigers, under its new Tiger Cell in?
20. Name the person, who has reappointed as chairman, managing director, & chief executive for a period of five years of two-wheeler market leader Hero MotoCorp?
21. With which co-operative Banks, Non-life insurer Reliance General Insurance Company Ltd. has announced a bancassurance tie-up?
22. Which country warned China that ties were deteriorating over disputed East China Sea islets recently?
23. India's second largest mobile operator Vodafone has renewed its multi-million dollar agreement for IT infrastructure with tech giant _____ for another 5 years.
24. Name the renowned Yoga Guru, who has passed away following a brief illness in Chennai recently?
25. LS Speaker Sumitra Mahajan constituted the Press Advisory Committee for 2016-17 which is to be headed by?
26. India's ranking as a business destination has improved as per a recent survey of Transparency International to?
27. The government has decided to set up a committee to look into all issues including foreign direct investment norms pertaining to the fast growing e-commerce industry which will be headed by?
28. With which country, Russian President Vladimir Putin has agreed to work toward restoring full relations recently?
29. Who has been appointed as the Managing Director (MD) of State Bank of India recently?
30. With which institution, NHAI has signed MoU (MOU) for research project on Laboratory & Field investigations on Paneled Cement Concrete Pavements for Highways recently?
31. Who has been appointed as United Bank of India & Bank of Maharashtra's MD & CEO?
32. With which states government, IRCTC signed a MoU, which seeks to provide improved hospitality & tourism services to their customers?
33. The Asian Development Bank (ADB) Board of Governors has unanimously re-elected whom as President of ADB?
34. Which country has launched a new high-resolution Synthetic Aperture Radar (SAR) imaging satellite Gaofen-3?
35. Finance Minister Arun Jaitley launched a data bank Portal of _____ in New Delhi.
36. Name the Pakistan's batsman & a cricketing great who passed away at the Aga Khan Hospital in Karachi.
37. Which organisations has signed an MoU with Defence Food Research Laboratory of Defence Research & Development Organisation (DRDO) for Transfer of Technology of Retort Pouch Processed Foods?
38. Which state has decided to implement the Pradhan Mantri Fasal Bima Yojana in the state on an experimental basis?
39. Savlon, has announced whom as its brand ambassador.
40. The Forbes '100 Richest Tech Billionaires in The World 2016' list has been topped by.....?
41. Who has been appointed as the Executive Director on the board of Oriental Bank of Commerce (OBC) recently?
42. Which Union Territories (UTs) with Madhya Pradesh government have signed the MoU (MoU) with the Ministry of Power to join the Ujwal Discom Assurance scheme?
43. With which country, the Union Cabinet given its approval for signing & ratification of an Agreement on Economic Cooperation?
44. Mobile Standards Alliance of India (MSAI) & the Nirbhaya Jyoti Trust launched a mobile app aimed at ensuring personal safety during times of distress. The app is called as?
45. The Reserve Bank would transfer to the central government its surplus profit of how many crores?
46. Which of the following states has become the first state to ratify the GST bill passed by the Parliament?
47. Union Information & Broadcasting Minister, M Venkaiah Naidu inaugurated the Independence Day Film Festival in?
48. Microsoft has announced the appointment of whom as the new MD of its India Research Lab based in Bengaluru.
49. Which of the following state has inaugurated city's first Sewa Kendra at Ladhewali?
50. Which private sector banks has announced the availability of Flipkart's mobile site in its mobile banking app to gives the customer a secure in-app shopping environment ?
51. Who has been appointed as the next High Commissioner of India to the West Africa's Republic of Ghana?
52. NABARD has sanctioned how much crores to the Punjab government?
53. Name the private sector banks that have tied up with two entities with a large customer base, thereby getting access to that customer base, to offer 'nano loans' & better online shopping experience?
54. National Collateral Management Services (NCML) has tied up with which bank to provide funding for farmers & traders

- against their commodities stored at its warehouses.
55. Name the two time national cinema awardee for best lyrics, who passed away in Chennai recently?
 56. Which country has declared a public health emergency in Puerto Rico as a result of a Zika epidemic?
 57. Sri Lanka & _____ have finally signed a tripartite agreement to proceed with the construction of a Financial City Center in capital Colombo.
 58. With which Public sector bank, Korea Development Bank have signed a MoU to enhance business synergies?
 59. Which state has decided to grant 33% reservation to women in Urban Local Bodies recently?
 60. Which state government has signed a MoU with India Trade & Exhibition Centre (ITEC), Dubai for promotion of skill development, investment & tourism sectors?
 61. Who has been appointed as MD & Global CEO of Cipla Limited?
 62. Who has been appointed as the next Chief Justice of the Bombay High Court?
 63. South Indian Bank & _____ a credit card issuer has announced their collaboration to launch co-branded credit cards for the customers of South Indian Bank.
 64. In which city, the first ever BIO-CNG project in India was inaugurated?
 65. Which institution has bagged the 5 Medals for Young Scientists award 2016 recently?
 66. IRDAI has imposed how much amount fine on Bharti AXA General Insurance Co Ltd for violation of various norms including outsourcing activities & corporate governance?
 67. Which company has acquired Beam, an interactive live streaming startup that lets viewers watch & play along with game streamers in real time?
 68. Who won the Australian Open squash title by beating Mayar Hany of Egypt recently?
 69. Who bagged the best actress & best actor awards at the Indian Film Festival (IFF) of Melbourne 2016.
 70. National Payments Corporation of India (NPCI) ties up with which bank to launch an USSD based *99# mobile application for their customers.
 71. In which of the following state the sailing campaign "Jal Tarang" was flagged off by state assembly.
 72. A first-of-its-kind touch & feel garden for the visually impaired people in the country was inaugurated near Calicut University campus in.....?
 73. Name the scientist, who has bagged the Dr APJ Abdul Kalam Award for meritorious services in the Higher Education Department of Tamil Nadu.
 74. Name the composer who enthralled a packed audience at the iconic UN General Assembly hall.
 75. Prime Minister Narendra Modi has announced how much per cent hike in pension of freedom fighters on 70th Independence Day?
 76. Tata Power Solar has commissioned a 100-MW solar project for NTPC in.....?
 77. Which companies has secured an order to set up solar photovoltaic (SPV) plants, estimated to cost Rs 169 crore?
 78. Name the Jamaican sprinter who won gold in the 100-metre final in Rio de Janeiro, Brazil recently.
 79. Name the president of FIFA for two decades transformed soccer's governing body who died.
 80. Who has been honoured by the America Tamil Sangam with its Tamil Ratna Award?
 81. Name the Malayalam filmmaker-scriptwriter, who has passed away in Kochi recently?
 82. Which country has topped in Global Innovation Index?
 83. Which state government has re-launched its "Majhi Kanya Bhagyashri" scheme?
 84. Name the Punjabi writer, who has passed away recently?
 85. Which bank become the first private bank to join hands with the Kochi Biennale Foundation (KBF), pledging Rs1 crore to support the upcoming Kochi-Muziris Biennale 2016?
 86. Which bank has announced a bancassurance tie-up with the country's largest life insurer, LIC of India.
 87. Which of the following Indian companies has announced a long-term master franchise agreement with Amsterdam-based fashion brand Scotch & Soda?
 88. Which Banks has launched a payment service using a smartphone keyboard named 'iMobile SmartKeys'?
 89. Doha Bank QSC, one of the prominent banks in Qatar, is formally inaugurating its 1st branch in which state?
 90. Former Cricketer & Rajya Sabha MP Sachin Tendulkar has selected Donja village in Osmanabad district of _____ for development under the Sansad Adarsh Gram Yojna
 91. Which state government will honour Sakshi Malik, the first woman Indian wrestler to win a medal in Olympics, with the coveted Rani Laxmi Bai award?
 92. The Government has slapped an additional penalty of \$380 million (around Rs. 2,500 crore) on which company & its partners for producing less than targeted natural gas from eastern offshore KG-D6 fields.
 93. Name the ace shuttler, who made the country proud in Rio Olympics as she became the first Indian woman to win a Silver medal at the biggest sporting event of the world.
 94. A two-day meeting of BRICS women parliamentarian's forum began in which cities?
 95. Which bank has partnered with Chillr, a mobile banking application that connects directly to a person's bank account & enables instant money transfers?
 96. Name the Indian companies that have been listed in The Fortune 2016 "Change the World list".
 97. Who will succeed Raghuram Rajan as the RBI chair after Rajan term comes to end on 03rd September 2016?
 98. Who has been awarded as the Most Enterprising CEO in Electronics Sector by the Indo Global Business Council?

ANSWERS

1. Telangana

2. Tamil Nadu

- | | | |
|---|-------------------------------------|---|
| 3. China | 35. MSME | 69. Sonam Kapoor & Nawazuddin Siddiqui |
| 4. Vijay Rupani | 36. Hanif Mohammad | 70. Union Bank of India |
| 5. Dubai | 37. IRCTC | 71. Himachal Pradesh |
| 6. Odisha | 38. Bihar | 72. Kerala |
| 7. 4% | 39. Saina Nehwal | 73. P Shanmugam |
| 8. Chhatisgarh | 40. Bill Gates, Microsoft | 74. AR Rahman |
| 9. Thailand | 41. Himanshu Joshi | 75. 20 per cent |
| 10. Odisha | 42. Puducherry | 76. Anantapur, Andhra Pradesh |
| 11. Dipa Karmakar | 43. Croatia | 77. BHEL |
| 12. China | 44. I feel safe | 78. Usain Bolt |
| 13. Anand Sinha | 45. Rs 65,876 crore | 79. Joao Havelange |
| 14. HDFC ERGO General Insurance Company | 46. Assam | 80. AR Rahman |
| 15. Syndicate Bank | 47. New Delhi | 81. TA Razaq |
| 16. Madhya Pradesh | 48. Sriram Rajamani | 82. Switzerland |
| 17. Visakhapatnam, Andhra Pradesh | 49. Punjab | 83. Maharashtra |
| 18. Kalikho Pul | 50. Kotak Mahindra Bank | 84. Gurdial Singh |
| 19. Dehradun | 51. Birender Singh Yadav | 85. South Indian Bank |
| 20. Pawan Munjal | 52. Rs 26.06 crore | 86. Shivalik Mercantile Co-operative Bank |
| 21. Shamrao Vithal Co-operative Bank | 53. Kotak Mahindra Bank & Axis Bank | 87. Reliance Brands |
| 22. Japan | 54. Syndicate Bank | 88. ICICI Bank |
| 23. IBM | 55. Na Muthukumar | 89. Kerala |
| 24. TKV Desikachar | 56. USA | 90. Maharashtra |
| 25. DP Kamat | 57. China | 91. Uttar Pradesh |
| 26. 76th | 58. State Bank of India | 92. Reliance Industries Limited |
| 27. Amitabh Kant | 59. Nagaland | 93. P V Sindhu |
| 28. Turkey | 60. Rajasthan | 94. Jaipur |
| 29. Dinesh Kumar Khara | 61. Umang Vohra | 95. Federal Bank |
| 30. IIT-Kharagpur | 62. Manjula Chellur | 96. Cipla Ltd & Godrej |
| 31. I. Pawan Kumar Bajaj & II. Ravindra Prabhakar Marathe | 63. SBI Card | 97. Urjit Patel |
| 32. Manipur | 64. Pune, Maharashtra | 98. SK Sharma |
| 33. Takehiko Nakao | 65. IISc, Bengaluru | |
| 34. China | 66. Rs 35 lakh | |
| | 67. Microsoft | |
| | 68. Dipika Pallikal Karthik | |

21ST AUGUST TO 31ST AUGUST

- What is the rank of India in terms of fixed broadband adoption among Asia-Pacific countries as per a study by the United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)?
- Which state Police has launched DNA Index System (DIS), the first-of-its-kind initiative that allows generation of DNA profiles from live samples like saliva and blood stains?
- Who was sworn-in as Governor of Manipur at the Raj Bhavan in state capital Imphal recently?
- Which Public Sector Bank has launched a three-in-one online investment and trading platform in association with Geojit BNP Paribas Financial Services recently?
- Which country have beaten Germany to bag their Olympic Football gold for the first time in its history?
- Which company has agreed to partner with Indian Railways to digitise its heritage assets and help create a digital repository for universal online access free of cost?
- Name the former international umpire, who died at the age of 71 in Kolkata recently.
- _____ presently Ambassador of India to Armenia, has been concurrently accredited as Ambassador to Georgia, with residence in Yerevan (Armenia).
- Which Bank has made locker visiting facility free for its customers? Earlier, the customers were allowed 12 free visits at lockers in an year.
- Who has been appointed as independent director on the board of India Post Payment Banks (IPPB) - the payments bank arm of postal department?
- Union Women and Child Development Minister Maneka Gandhi inaugurated the state's first animal birth control centre (ABC) at.....?
- Who has been re-appointed as the Chairman of telecom giant Bharti Airtel?
- Name the Indian Olympic Association (IOA) President, who was awarded the Olympic Order for his outstanding services to the Olympic movement?
- Which state is gearing up to be declared as the first 'open defecation-free', with the completion of 1.90 lakh toilets in

its 941 village panchayats by this November?

15. In a first among Indian carriers, Vistara announced that Bollywood actor ____ will be their new brand ambassador.
16. Prime Minister Narendra Modi and Afghanistan President Ashraf Ghani jointly tele-inaugurated the restored stor Palace in.....?
17. Name the former CCI head, who will take over as Non-Executive Part-time Chairman of YES Bank.
18. Name the actor, who will be awarded the Chevalier de L'Ordre Arts et Lettres (The Knight of the Order of Arts and Letters) by the French government.
19. Who was sworn-in as the Governor of Assam recently?
20. Who is appointed as the Chairman of the selection committee of Karnataka Ekalavya?
21. Indian govt's Tourism Ministry has decided who is the brand ambassador for the Incredible India campaign?
22. United States has announced 138 million dollar new aid to which country recently?
23. Name the former President of Singapore, who passed away?
24. Which company inked pact with Microsoft India to offer telecom and IT solutions for big businesses promoting the demand for IT and cloud services?
25. Name the Managing Director and chief executive of Catholic Syrian Bank, who has resigned, a year after taking over the posts.
26. The government is set to ban cash transactions over how much amount as it seeks to clamp down on black money in the economy?
27. Jawaharlal Nehru Port Trust to sign agreement with bankers for External Commercial Borrowing. Jawaharlal Nehru Port Trust is located in.....?
28. Punjab Chief Minister Parkash Singh Badal launched a mobile app _____ for farmers.
29. Who won a double to clinch the title in the MRF Formula 1600 category and a ticket for the Mazda Road to Indy shootout as the fifth and final round of the MRF MMSC FMSCI Indian National Racing Championship concluded in Chennai?
30. President Pranab Mukherjee launched Kolkata Akashvani Kendra's Moitree Service in Bangla for listeners in.....?
31. Which city will be hosted 2016 Kabaddi World Cup?
32. Which Indian company has signed a MoU with California-based Bloom Energy for developing natural gas-based fuel cell power generation?
33. Who has sworn as the new Punjab Governor and also as Administrator of Chandigarh Administration?
34. Who has been resigned as the Director Finance and CFO (KMP) of Bharat Electronics Ltd with effect?
35. Who has been appointed as Joint Secretaries in PMO as part of massive mid-level reshuffle recently?
36. India has figured among the top 10 wealthiest countries in the world with a total individual wealth of USD 5,600 billion while _____ topped the chart.
37. Bajaj Finance Limited, a motorcycle finance company, has partnered with _____ to facilitate purchase of vehicles in Karnataka.
38. The world's largest indoor theme park is set to open in _____ this month to lure back some of the tourists and residents who often flee abroad during the scorching desert summer.
39. Name the Iranian director, who has been selected for the Asian Filmmaker of the Year Award at the Busan International Film Festival beginning October 6, 2016.
40. Which company has launched an open ended scheme, which will generate long-term capital appreciation through a diversified portfolio of equity and equity-related securities recently?
41. Which country has launched its first Tibetan-language search engine 'Yongzin'?
42. Name the states that has signed an agreement to build irrigation projects on the Godavari river, benefitting farmers from both the states?
43. Name the Renowned filmmaker, who has been approached to head the 17-member jury which also comprises technicians and artistes from the film industry to represent India in Oscar awards.
44. Who is the present president of China?
45. The Gujarat Assembly has passed the Goods and Service Tax (GST) Constitution Amendment Bill. Gujarat is the _____ state to pass the bill.
46. Which state is the first State in the country to draft its own internal security act?
47. Ministry of Civil Aviation, Govt of _____ and AAI sign MOU on Regional Connectivity Scheme.
48. Name the American global pharmaceutical major, who has entered into an agreement to acquire Medivation Inc.
49. Who was appointed as Vice Chancellor of Mumbai-based Homi Bhabha National Institute (HBNI)?
50. Name the Mathrubhumi former editor, who has passed away recently?
51. India and _____ has signed an agreement that aims to foster conditions that will help create and improve workplace-based vocational training in India's industrial clusters.
52. Which country's unmanned submersible has dived to a depth of 10,767 metres at the world's deepest ocean point, setting a new record for the country to enable it to explore ocean beds for minerals and other natural resources?
53. The Union Cabinet chaired by the Prime Minister Shri Narendra Modi has given its approval for signing of new Air Services Agreement (ASA) between India and?
54. Minister of State for Minority Affairs _____ launched a new Hindi website and released an updated version of the English website of his ministry.
55. Name the Indian-American who women have been selected for the prestigious White House Fellow programme .
56. Deepika Padukone is not just India's top-paid actress, she is

also among the top 10 highest-paid actresses in the world, according to Forbes. The list is topped by?

57. Who is appointed as brand ambassador for Haryana's Beti Bachao, Beti Padhao and Beti Khilao campaign?
58. Fiji, a country in the South Pacific, is an archipelago of more than 300 islands. where is the capital of Fiji?
59. Who is the present Chancellor of Germany?
60. Which State government decided to transform 1,000 villages with the help of corporate sector, and the civil society over the next few years?
61. National Payments Corporation of India (NPCI) announced that customers of _____ banks will shortly be able to use Unified Payments Interface (UPI) for sending and collecting money via a smartphone using a Virtual Payment Address (VPA).
62. In an attempt to further develop the fixed income and currency markets, _____ announced a host of measures that would encourage large borrowers to raise funds from these markets.
63. Which company has announced that it has received a successful Establishment Inspection Report (EIR) from the US Food and Drug Administration (FDA) for its chemical division in Chennai, named Natco Organics Ltd, prior to amalgamation into the company?
64. The Union Cabinet has cleared the _____ Bill 2016, aimed at regulating commissioning of surrogacy in the country in a proper manner.
65. The Union Cabinet gave its nod for signing of revised double taxation avoidance agreement (DTAA) with _____, a popular tax haven recently.
66. The world's first self-driving taxis began picking up passengers in.....?
67. Cyprus, an island in the eastern Mediterranean, has rich, turbulent history stretching back to antiquity. Where is the capital city of Cyprus?
68. Who is the present Prime Minister of Singapore?
69. Which Bank has launched 'KBL-SMARTz', a mobile application (app) built on the unified payments interface (UPI) platform of the National Payments Corporation of India (NPCI) recently?
70. In a landmark judgement, the High Court lifted the ban imposed on women from entering the sanctum sanctorum of Haji Ali dargah in.....?
71. Women and Child Development Minister _____ launched Protection of Children from Sexual Offenses, POCSO e-box, in New Delhi recently.
72. RBI has asked banks to provide loans to women self-help groups in rural areas at how much per cent per annum, as per the government's revised guidelines for the current financial year.?
73. By the US multinational banking firm Goldman Sachs, Indian economy is likely to grow _____ in this year 2016-17, growth in the current fiscal driven by better monsoon, government pay hike, key reforms and FDI inflows.
74. Name the person, who will be rewarded as Major Dhyan Chand Lifetime Achievement Award?
75. Which private sector bank has tied up with IBM to use its Cloud commerce solutions to transform customer engagements and enhance its cross-sell platforms?
76. The Union cabinet approved an MoU with _____ for cooperation in the field of traditional systems of medicine recently.
77. Central Tool Room and Training Centre (CTTC), Bhubaneswar, has signed an agreement with _____ for technology transfer and a contract for supply of spacecraft component.
78. The SAARC Finance Ministers' meeting begins in _____ without minister-level participation from a number of countries recently.
79. Which organizations has signed a MoU with The Energy and Resources Institute (Teri) for promoting renewable energy recently?
80. Which country will host the 1st BRICS Film Festival from September 2 to 6?
81. Which Public sector Banks has plans to raise Rs. 750 crore by issuing Basel III compliant bonds recently?
82. Name the Scientific Adviser, who to the Defence Minister and DRDO's DG (Missiles & Strategic Systems), was conferred the first IEI-IEEE Award for engineering excellence 2015.
83. Who has won the UEFA Best Player in Europe award for the second time?
84. Who has appointed as Executive Director of Corporation Bank for a period of three years?
85. The Government is all set to announce how much rupees package for displaced people from Pakistan occupied Kashmir, PoK, living in the country?
86. The Indian Space Research Organization (ISRO) has successfully test launched the Supersonic Combustion Ramjet engine, called.....?
87. Which of the following states has been launched the 108 mobile app for immediate and easy facility of the National Ambulance Service recently?
88. Union Finance Ministry Arun Jaitley has set up a committee to consider incentives such as cash back schemes and tax rebates for promoting card and digital payments in a step towards discouraging cash transactions which will be headed by?
89. Which city will be host the 2017 Bharatiya Pravasi Divas?
90. Name the Sri Lankan's cricketer, who has to announce retirement after Australia series?
91. India has been ranked _____ on the World Risk Index, topped by the Island state of Vanuatu.
92. Employees of Reserve Bank of India have expressed concern over the setting up of the proposed PDMA recently. PDMA stands for?
93. Name the person, who was named Chairman of a five-member review committee to probe the shooters' Rio

Games debacle.

94. Which of the following Banks has been given approval to open a branch in India offering banking services recently?
95. _____ has eased restrictions on 201 entities against whom it had taken action in two different cases of alleged misuse of stock market platform for tax evasion and suspected money-laundering activities.
96. Union HRD Minister Prakash Javadekar formally inaugurated the Indian Institutes of Technology (IIT) in.....?
97. Name the player who has been set a world record, as he captained in a record 325th game (most by a player in history), across all three formats.
98. Who is the present president of Myanmar?
99. Which country has set up a state-owned aircraft engine maker with registered capital of \$7.5 billion?
100. Who has won the Belgian Grand Prix 2016 of Formula One recently?
101. Qatar's Doha Bank recently opened a branch in
102. Who won the overall championship in the 82nd All India Railway athletic Championship held at Tiruchirapalli, Tamil Nadu?
103. India's first military heritage website _____ was launched by Glory Foundation.
104. Name the eminent author, who was awarded the prestigious Saraswati Samman for the year 2015 for her autobiography 'Chitt-Chete' in Dogri language.
105. The world famous Velankanni our lady of health basilica annual feast started with the hoisting of flag in
106. The central bank predicts that India will grow by _____ in this fiscal year.
107. India and which country signed the bilateral Logistics Exchange Memorandum of Agreement (LEMOA) that will give the militaries of both countries access to each other's facilities for supplies and repairs.
108. Which country has flagged its second train to Afghanistan — this time to the commercial hub of Mazar-e-Sharif — as part of its deepening economic and security engagement with Kabul recently?
109. Who headed the committee related to strengthening border protection and addressing the issue of gaps and vulnerability in border fencing along Indo-Pakistan Border?
110. Country's largest paramilitary force Central Reserve Police Force India (CRPF) has decided to appoint Olympic silver medallist _____ as its brand ambassador.
111. Prime Minister Narendra Modi has launched the first phase of SAUNI-Saurashtra Narmada Avataran Irrigation yojana at Sanodara of Jamnagar district of.....?
112. Which E-commerce company has announced the launch of a dedicated online Telugu book store with a wide-range of over 10,000 Telugu titles recently?
113. Which state governments has launched a new cadre for urban local bodies recently?
114. Name the famous painter, writer and art historian, who has passed away recently?
115. The National Bank for Agriculture and Rural Development (NABARD) has sanctioned a loan of how much crore for Haryana?
116. Who is appointed as Chief General Manager of State Bank of Travancore recently?
117. Mobile wallet company _____ announced that it has tied up with 12 state electricity boards to enable electricity bill payments for its wallets' users.
118. Which Bank has launched customer-centric digital initiative which enables 'any Bank customers to link and operate their various Bank accounts using a single app'?
119. Who has appointed as Managing Director and Chief Executive of SBI Mutual Fund recently?
120. Name the actor/actress, who was honoured with the Entertainer of the Year award by CNBC-TV18?
121. Under the Government of India's UnnatJyoti by Affordable LEDs for all (UJALA) scheme _____ has become the first state to distribute 2 crore LED bulbs.
122. Which company has entered into arrangements with scheduled commercial banks whereby the banks will issue letter of credit to project companies in the renewable energy space?
123. A small Florida bank will issue the first US credit card intended for use in _____ and make it easier for Americans to travel and work on an island largely cut off from the US financial system.
124. The Reserve Bank of India (RBI) has come up with a new scheme for Sustainable Structuring of Stressed Assets (S4A) of the large project. The Scheme for S4A will cover those projects which have started commercial operations and have an outstanding loan of over _____?
125. Public Sector Power equipment manufacturer Bharat Heavy Electricals Limited (BHEL) has commissioned 195 MW unit at?
126. Name the US translator who has passed away recently?
127. The Centre has decided to import pulses from Myanmar and Africa to beef up buffer stocks to check its price rise. The government also decided to enhance the buffer stock of pulses from 1.5 lakh tonnes to
128. Who was unanimously appointed as the chairperson of the North Cachar Hills Autonomous Council (NCHAC) in Assam?
129. Which of the following Chief Minister has inaugurated 'Child Labour Tracking System (CLTS)' in order to keep a track of rescued child labour for their proper rehabilitation recently?
130. Name the person who has been taken charge as the Chief Justice of Manipur High Court recently?
131. President Pranab Mukherjee has been presented National Order of the _____ Coast. This is the highest award of the West African country and was conferred on him during his two days visit to the nation.
132. Which of the following Securities launched its mobile application, Tick Pro for futures and options (F&O) traders recently?



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Punjab: Ludhiana | Chandigarh | **W.B:** Kolkata | Rishra Hooghly | Durgapur | Siliguri | **Gujarat:** Ahmedabad | Gandhinagar

Vadodara | Anand | **Uttarakhand:** Dehradun | **Telangana:** Hyderabad | **Tamil Nadu:** Pondicherry | Vellore | Chennai | Salem | **A.P.:** Anantpur

Karnataka: Bangalore | **Maharashtra:** Pune | Mumbai



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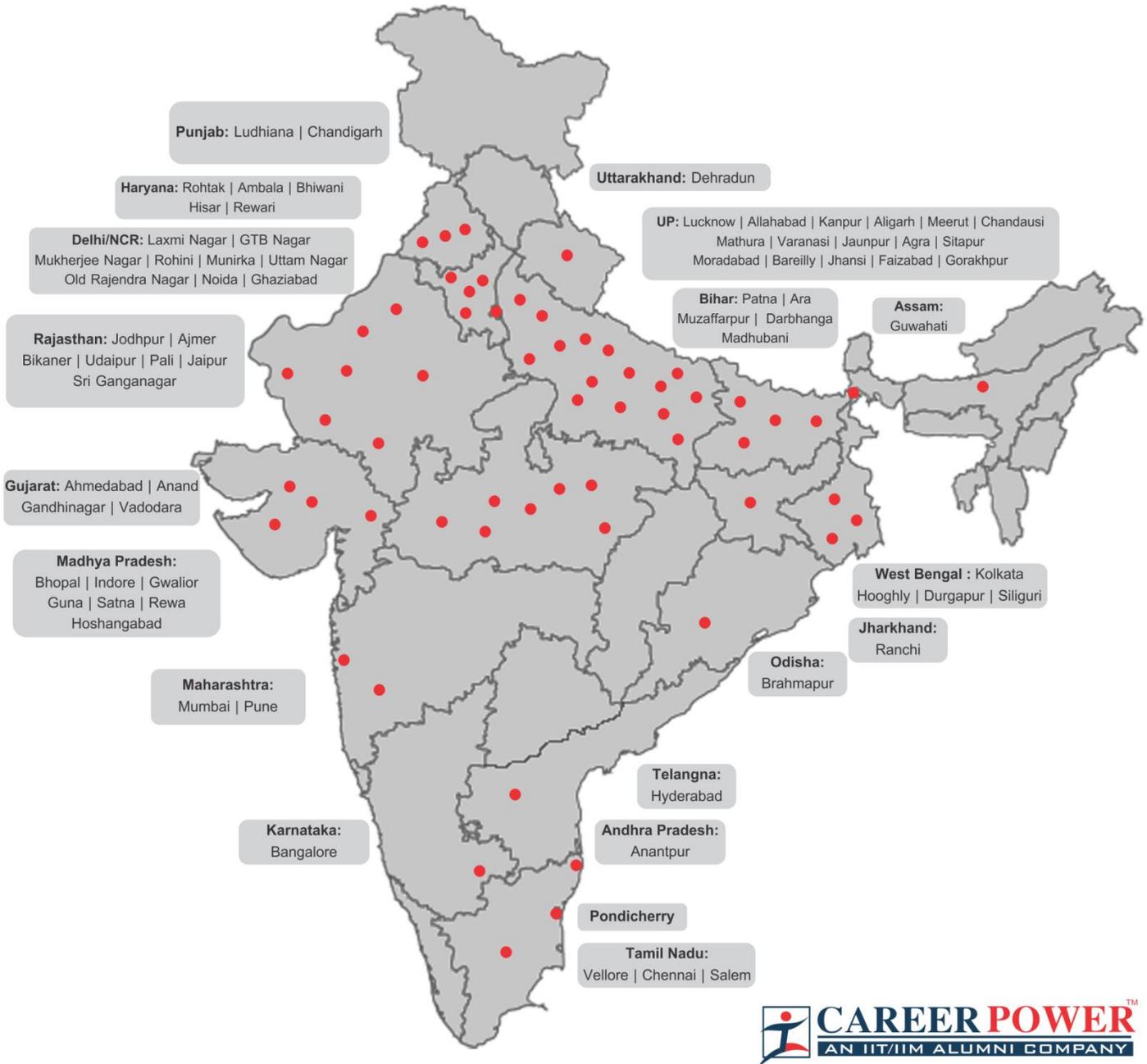


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Haldwani | Sultanpur | Bhilai | Coimbatore

ANSWERS

1. 39th
2. Andhra Pradesh
3. Najma A Heptulla
4. Andhra Bank
5. Brazil
6. Google
7. Subrata Banerjee
8. Yogeshwar Sangwan
9. Punjab National Bank
10. RS Sodhi
11. Dehradun
12. Sunil Bharti Mittal
13. N Ramachandran
14. Kerala
15. Deepika Padukone
16. Kabul
17. Ashok Chawla
18. Kamal Haasan
19. Banwarilal Purohit
20. Syed Kirmani
21. Narendra Modi
22. South Sudan
23. SR Nathan
24. BSNL
25. Anand Krishnamurthy
26. Rs 3 Lakh
27. Maharashtra
28. Kisan Suvidha
29. Vikash Anand
30. Bangladesh
31. Ahmedabad, Gujarat
32. GAIL
33. V P Singh Badnore
34. PR Acharya
35. Brajendra Navnit & V Sheshadri
36. USA
37. India Post
38. Dubai
39. Late Abbas Kiarostami
40. Mahindra Asset Management Company
41. China
42. Maharashtra and Telangana
43. Ketan Mehta
44. Xi Jinping
45. Sixth
46. Maharashtra
47. Maharashtra
48. Pfizer Inc
49. Answer. P D Gupta
50. Answer. K K Sreedharan
- 133.
51. Answer. Germany
52. Answer. China
53. Answer. Fiji
54. Answer. Mukhtar Abbas Naqvi
55. Answer. Anjali Tripathi & Tina R Shah
56. Jennifer Lawrence
57. Sakshi Malik
58. Suva
59. Angela Merkel
60. Maharashtra
61. 21
62. RBI
63. Natco Pharma Ltd
64. Draft Surrogacy Bill, 2016
65. Cyprus
66. Singapore
67. Nicosia
68. Lee Hsien Loong
69. Karnataka Bank
70. Mumbai
71. Maneka Sanjay Gandhi
72. 7 per cent
73. 7.9%
74. Dungdung
75. IndusInd Bank
76. Myanmar
77. ISRO
78. Islamabad, Pakistan
79. Bengal Chamber of Commerce and Industry (BCCI)
80. India
81. Union Bank of India
82. G Satheesh Reddy
83. Cristiano Ronaldo
84. Gopal Murli Bhagat
85. Rs 2000 crore
86. Scramjet
87. Himachal Pradesh
88. Ratan P Watal
89. Bengaluru, Karnataka
90. Tillakaratne Dilshan
91. 77th
92. Public Debt Management Agency
93. Abhinav Bindra
94. Qatar National Bank
95. SEBI
96. Dharwad, Karnataka
97. MS Dhoni
98. Htin Kyaw
99. China
100. Answer. Nico Rosberg
101. Kochi, Kerala
102. Western Railway
103. coloursofglory.org
104. Padma Sachdev
105. Tamil Nadu
106. 7.6%
107. USA
108. China
109. Madhukar Gupta
110. PV Sindhu
111. Gujarat
112. Amazon
113. Odisha
114. Dinanath Pathy
115. Rs 204.67 crore
116. Ashok Kumar Pradhan
117. MobiKwik
118. Canara Bank
119. Anuradha Rao
120. Irrfan Khan
121. Gujarat
122. PTC India Financial Services
123. Cuba
124. Rs 500 crore
125. Muzaffarpur, Bihar
126. Gregory Rabassa
127. 8 lakh tonnes
128. Ranu Langthasa
129. Nitish Kumar, Bihar
130. Justice Rakesh Ranjan Prasad
131. Republic of Ivory
132. Reliance Securities

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Twisted Ones for IBPS & RRB 2016: Reasoning

Directions(1-6): Read the following information carefully and answer the questions which follow.

There are seven friends named Gaurav, Saurabh, Swati, Ayan, Shubham, Osheen, Nikhil from different cities Bangalore, Amritsar, Lucknow, Delhi, Chandigarh, Jaipur and Kolkata. They are attending a gathering endorsing shoes of Nike, Lotto, Lancer, Sparx, Puma, Adidas and Reebok. They are bringing balloons of different colours to the gather, from a vivid range of Orange, Red, Yellow, Blue, Amber, Indigo, Pink.

Shubham is wearing Sparx shoes and he'll be bringing balloons of a colour whose initial is a vowel but not 'A'. The one wearing Lancer is not bringing Blue and Pink balloons and is from a metropolitan city. Osheen does not wear Reebok and Lotto and is bringing Blue balloons. Gaurav will not bring Yellow and Pink balloons. Ayan from Delhi wears Adidas. Saurabh is from Lucknow and does not wear Nike. Nikhil wears either Puma or Lotto but Saurabh does not wear Lotto. Person bringing yellow balloon is not from Amritsar and Delhi. Person from Jaipur is bringing Indigo balloon. And the one from Chandigarh will bring Pink balloon wearing Reebok shoes. The person wearing Nike is from either Kolkata or Jaipur. Ayan is bringing Orange balloons and the person wearing Lotto brings Amber.

- Who among the following is going to Bangalore?
(a) Osheen (b) Ayan (c) Gaurav
(d) Swati (e) Data Inadequate
- Who among the following is bringing Yellow balloons?
(a) Nikhil (b) Swati (c) Shubham
(d) Saurabh (e) None of these
- If Gaurav is Saurabh, Ayan is Nikhil, Swati is Osheen, Osheen is Shubham, Saurabh is Ayan, Shubham is Gaurav and Nikhil is Swati. Who among the following does not wear Addidas or Lotto shoes and does not bring Red or Indigo balloon?
(a) Nikhil (b) Swati (c) Ayan
(d) Saurabh (e) Gaurav
- Assuming that mother of the one wearing Reebok brings Blue balloons and is the sibling of the person from Delhi whose father and uncle is, Gaurav and the person from Lucknow respectively. Who among the following is wearing Lancer shoes?
(a) Swati's Grandfather (b) Gaurav's Grandfather
(c) Osheen's Grandfather (d) Nikhil's Grandfather
(e) Data Inadequate
- If all the persons are arranged in the alphabetical order of cities they are from and are given balloons in alphabetical order (arranging balloons in alphabetical order from the types, they were supposed to bring). Who among the following will bring Pink balloon?
(a) Ayan (b) Swati (c) Saurabh
(d) Nikhil (e) None of these
- Which among the following combination is correct?
(a) Swati- Pink- Chandigarh (b) Osheen- Yellow- Lancer
(c) Gaurav- Indigo- Jaipur (d) Nikhil- Delhi- Lotto

(e) None of these

Directions (7-10): Study the following information carefully and answer the questions asked:

When a word and number arrangement machine is given an input line words and number, it arranges them following a particular rule. The following is the illustration of input and re-arrangement-

Input: PAN 637 EAR 631 AXE 800 117 DIP ASK 248 OAT 307

Step I: EAR PAN 637 631 AXE 800 117 DIP ASK 248 OAT 307

Step II: EAR 307 PAN 637 631 AXE 800 117 DIP ASK 248 OAT

Step III: EAR 307 DIP PAN 637 631 AXE 800 117 ASK 248 OAT

Step IV: EAR 307 DIP 631 PAN 637 AXE 800 117 ASK 248 OAT

Step V: EAR 307 DIP 631 AXE PAN 637 800 117 ASK 248 OAT

Step VI: EAR 307 DIP 631 AXE 117 PAN 637 800 ASK 248 OAT

Step VII: EAR 307 DIP 631 AXE 117 ASK PAN 637 800 248 OAT

Step VIII: EAR 307 DIP 631 AXE 117 ASK 637 PAN 800 248 OAT

Step IX: EAR 307 DIP 631 AXE 117 ASK 637 PAN 248 800 OAT

Step X: EAR 307 DIP 631 AXE 117 ASK 637 PAN 248 OAT 800

This is the final arrangement and step X is the last step for this input

Input: DEN ADD 617 AGE 599 148 CAE 300 OAK CUE 153 123

- What will be fourth step for the input given above?
(a) ADD 599 CAE DEN 617 AGE 148 300 OAK CUE 153 123
(b) ADD 599 CAE 617 DEN AGE 148 300 OAK CUE 153 123
(c) ADD 599 CAE 617 AGE DEN 148 300 OAK CUE 153 123
(d) ADD 599 CAE 617 AGE 123 DEN 153 OAK 148 300 CUE
(e) None of these
- How many steps will be required to get the final output for the given input?
(a) Three (b) Four (c) Six
(d) None of these (e) Five
- Which of the following would the 8th element from right end in step VI?
(a) 617 (b) 123 (c) AGE
(d) DEN (e) None
- Which of the following would be the 8th element from left end in step VII?
(a) 153 (b) DEN (c) 148
(d) 300 (e) There is no such step.

Directions (11-12): Study the following information carefully and answer the questions given below:

Pole M is 50m to the west of P, which is 35m to the south of K. Pole V is exactly between Pole M and P. R is to the west of K and to the north of V.

- What is the distance between R and V?
(a) 25m (b) 35m (c) 40m
(d) Can't be determined (e) None of these
- In which direction is K with respect to M?
(a) North (b) East (c) Southwest
(d) Northeast (e) None of these

Directions (13-14): Study the following information carefully and answer the questions given below:

A family consists of seven members J, L, W, Q, S, U and X. U is married to W, who is not mother of L. S is brother of U, who is mother of L. X is daughter of W, who is father-in-law of Q. S is son of J. Q is not a male.

13. How is J related to X?
 (a) Grandfather (b) Father (c) Grandmother
 (d) Either (a) or (c) (e) Uncle
14. How is Q related of L?
 (a) Wife (b) Husband (c) Sister
 (d) Can't be determined (e) None of these
15. **Statement:** Government of India's Smart City mission is facing a serious hurdle as not even a single state has submitted its smart-city plan to the Union urban development ministry.
Which of the following may be probable reason(s) for no submission of smart-city plan by the states?
 (A) Non-availability of free land with the states.
 (B) States not having sufficient fund to develop smart city
 (C) Strict environmental laws imposed by the Central Government
 (a) Only C and A (b) Only B and C (c) Only A and B
 (d) Only B and D (e) Only C and D

Solution

1. (c)

Name	Cities	Colours of Balloons	Shoes
Gaurav	Bangalore	Red	Lancer
Saurabh	Lucknow	Yellow	Puma
Swati	Chandigarh	Pink	Reebok
Ayan	Delhi	Orange	Adidas
Shubham	Jaipur	Indigo	Sparx
Osheen	Kolkatta	Blue	Nike
Nikhil	Amritsar	Amber	Lotto

2. (d):

Name	Cities	Colours of Balloons	Shoes
Gaurav	Bangalore	Red	Lancer
Saurabh	Lucknow	Yellow	Puma
Swati	Chandigarh	Pink	Reebok
Ayan	Delhi	Orange	Adidas
Shubham	Jaipur	Indigo	Sparx
Osheen	Kolkatta	Blue	Nike
Nikhil	Amritsar	Amber	Lotto

3. (c)

Name	Cities	Colours of Balloons	Shoes
Gaurav	Bangalore	Red	Lancer
Saurabh	Lucknow	Yellow	Puma
Swati	Chandigarh	Pink	Reebok
Ayan	Delhi	Orange	Adidas
Shubham	Jaipur	Indigo	Sparx

Osheen	Kolkatta	Blue	Nike
Nikhil	Amritsar	Amber	Lotto

4. (a)

Name	Cities	Colours of Balloons	Shoes
Gaurav	Bangalore	Red	Lancer
Saurabh	Lucknow	Yellow	Puma
Swati	Chandigarh	Pink	Reebok
Ayan	Delhi	Orange	Adidas
Shubham	Jaipur	Indigo	Sparx
Osheen	Kolkatta	Blue	Nike
Nikhil	Amritsar	Amber	Lotto

5. (e)

Name	Cities	Colours of Balloons	Shoes
Gaurav	Bangalore	Red	Lancer
Saurabh	Lucknow	Yellow	Puma
Swati	Chandigarh	Pink	Reebok
Ayan	Delhi	Orange	Adidas
Shubham	Jaipur	Indigo	Sparx
Osheen	Kolkatta	Blue	Nike
Nikhil	Amritsar	Amber	Lotto

Arrangement according to the instructions in the question

Cities in alphabetical order	Person	Balloons in alphabetical order
Amritsar	Nikhil	Amber
Bangalore	Gaurav	Blue
Chandigarh	Swati	Indigo
Delhi	Ayan	Orange
Jaipur	Shubham	Pink
Kolkata	Osheen	Red
Lucknow	Saurabh	Yellow

6. (a)

Name	Cities	Colours of Balloons	Shoes
Gaurav	Bangalore	Red	Lancer
Saurabh	Lucknow	Yellow	Puma
Swati	Chandigarh	Pink	Reebok
Ayan	Delhi	Orange	Adidas
Shubham	Jaipur	Indigo	Sparx
Osheen	Kolkatta	Blue	Nike
Nikhil	Amritsar	Amber	Lotto

Name	Cities	Colours of Balloons	Shoes
Gaurav	Bangalore	Red	Lancer
Saurabh	Lucknow	Yellow	Puma
Swati	Chandigarh	Pink	Reebok
Ayan	Delhi	Orange	Adidas
Shubham	Jaipur	Indigo	Sparx

Osheen	Kolkatta	Blue	Nike
Nikhil	Amritsar	Amber	Lotto

7. (b)

Input: DEN ADD 617 AGE 599 148 CAE 300 OAK CUE 153 123
 Step I: ADD DEN 617 AGE 599 148 CAE 300 OAK CUE 153 123
 Step II: ADD 599 DEN 617 AGE 148 CAE 300 OAK CUE 153 123
 Step III: ADD 599 CAE DEN 617 AGE 148 300 OAK CUE 153 123
 Step IV: ADD 599 CAE 617 DEN AGE 148 300 OAK CUE 153 123
 Step V: ADD 599 CAE 617 AGE DEN 148 300 OAK CUE 153 123
 Step VI: ADD 599 CAE 617 AGE 123 DEN 148 300 OAK CUE 153
 Step VII: ADD 599 CAE 617 AGE 123 DEN 153 148 300 OAK CUE
 Step VIII: ADD 599 CAE 617 AGE 123 DEN 153 OAK 148 300 CUE
 Step IX: ADD 599 CAE 617 AGE 123 DEN 153 OAK 148 CUE 300
 In the above arrangement, the words are arranged based on the total value of their positions in alphabetical series. If two words have the same value then the word starting with a vowel will be arranged first. And in numbers, the prime numbers are arranged first and the odd numbers and finally the even numbers in increasing order.

8. Ans.(d)

Input: DEN ADD 617 AGE 599 148 CAE 300 OAK CUE 153 123
 Step I: ADD DEN 617 AGE 599 148 CAE 300 OAK CUE 153 123
 Step II: ADD 599 DEN 617 AGE 148 CAE 300 OAK CUE 153 123
 Step III: ADD 599 CAE DEN 617 AGE 148 300 OAK CUE 153 123
 Step IV: ADD 599 CAE 617 DEN AGE 148 300 OAK CUE 153 123
 Step V: ADD 599 CAE 617 AGE DEN 148 300 OAK CUE 153 123
 Step VI: ADD 599 CAE 617 AGE 123 DEN 148 300 OAK CUE 153
 Step VII: ADD 599 CAE 617 AGE 123 DEN 153 148 300 OAK CUE
 Step VIII: ADD 599 CAE 617 AGE 123 DEN 153 OAK 148 300 CUE
 Step IX: ADD 599 CAE 617 AGE 123 DEN 153 OAK 148 CUE 300
 In the above arrangement, the words are arranged based on the total value of their positions in alphabetical series. If two words have the same value then the word starting with a vowel will be arranged first. And in numbers, the prime numbers are arranged first and the odd numbers and finally the even numbers in increasing order.

9. (c)

Input: DEN ADD 617 AGE 599 148 CAE 300 OAK CUE 153 123
 Step I: ADD DEN 617 AGE 599 148 CAE 300 OAK CUE 153 123
 Step II: ADD 599 DEN 617 AGE 148 CAE 300 OAK CUE 153 123
 Step III: ADD 599 CAE DEN 617 AGE 148 300 OAK CUE 153 123
 Step IV: ADD 599 CAE 617 DEN AGE 148 300 OAK CUE 153 123
 Step V: ADD 599 CAE 617 AGE DEN 148 300 OAK CUE 153 123
 Step VI: ADD 599 CAE 617 AGE 123 DEN 148 300 OAK CUE 153
 Step VII: ADD 599 CAE 617 AGE 123 DEN 153 148 300 OAK CUE
 Step VIII: ADD 599 CAE 617 AGE 123 DEN 153 OAK 148 300 CUE
 Step IX: ADD 599 CAE 617 AGE 123 DEN 153 OAK 148 CUE 300
 In the above arrangement, the words are arranged based on the total value of their positions in alphabetical series. If two words have the same value then the word starting with a vowel will be arranged first. And in numbers, the prime numbers are arranged first and the odd numbers and finally the even numbers in increasing order.

10. (a)

Input: DEN ADD 617 AGE 599 148 CAE 300 OAK CUE 153 123

Step I: ADD DEN 617 AGE 599 148 CAE 300 OAK CUE 153 123

Step II: ADD 599 DEN 617 AGE 148 CAE 300 OAK CUE 153 123

Step III: ADD 599 CAE DEN 617 AGE 148 300 OAK CUE 153 123

Step IV: ADD 599 CAE 617 DEN AGE 148 300 OAK CUE 153 123

Step V: ADD 599 CAE 617 AGE DEN 148 300 OAK CUE 153 123

Step VI: ADD 599 CAE 617 AGE 123 DEN 148 300 OAK CUE 153

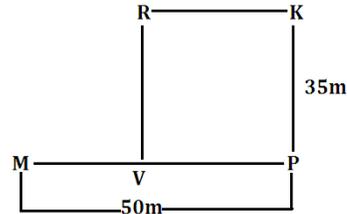
Step VII: ADD 599 CAE 617 AGE 123 DEN 153 148 300 OAK CUE

Step VIII: ADD 599 CAE 617 AGE 123 DEN 153 OAK 148 300 CUE

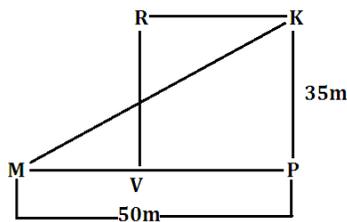
Step IX: ADD 599 CAE 617 AGE 123 DEN 153 OAK 148 CUE 300

In the above arrangement, the words are arranged based on the total value of their positions in alphabetical series. If two words have the same value then the word starting with a vowel will be arranged first. And in numbers, the prime numbers are arranged first and the odd numbers and finally the even numbers in increasing order.

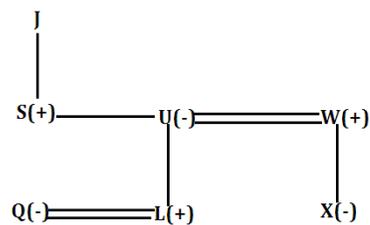
11. (b); RV=KP=35m



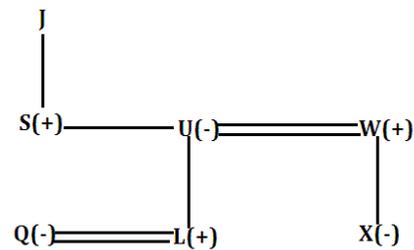
12. (d); North-East



13. (d)



14. (a)



15. (b); Though land has become scarcer, it is still available.

Twisted Ones for IBPS & RRB 2016: English Language

Directions (1-9): Read the following passage carefully and choose the best answer to each question out of the five given alternatives.

Emile Durkheim, the first person to be formally recognized as a sociologist and the most scientific of the pioneers, conducted a study that stands as a research model for sociologists today. His investigation of suicide was, in fact, the first sociological study to use statistics. In 'Suicide' (1964, originally published in 1897) Durkheim documented his contention that some aspects of human behaviour—even something as allegedly individualistic as suicide—can be explained without reference to individuals.

Like all of Durkheim's work, suicide must be viewed within the context of his concern for social integration. Durkheim wanted to see if suicide rates within a social entity (for example a group, organization, or society) are related to the degree to which individuals are socially involved (integrated and regulated). Durkheim described three types of suicide; egoistic, anomic, and altruistic. Egoistic suicide is promoted when individuals do not have sufficient social ties. Since single (never married) adults, for example, are not heavily involved with family life, they are more likely to commit suicide than are married adults. Altruistic suicide on the other hand, is more likely to occur when social integration is too strong. The ritual suicide of Hindu widows on their husband's funeral pyres is one example. Military personnel, trained to lay down their lives for their country, provide another illustration.

Durkheim's third type of suicide—anomic—suicide—increases when the social regulation of individuals is disrupted. For example, suicide rates increase during economic depressions. People who suddenly find themselves without a job or without hope of finding one are more prone to kill themselves. Suicides may also increase during periods of prosperity. People may loosen their social ties by taking new jobs, moving to new communities, or finding new mates.

Using data from the government population reports of several countries (much of it from the French Government Statistical Office), Durkheim found strong support for his line of reasoning. Suicide rates were higher among single than married people, among military personnel than civilians, among divorced than married people, and among people involved in nationwide economic crises.

It is important to realize that Durkheim's primary interest was not in the empirical (observable) indicators he used such as suicide rates among military personnel, married people and so forth. Rather, Durkheim used the following indicators to support several of his contentions: (1) social behaviour can be explained

by social rather than psychological factors; (2) suicide is affected by the degree of integration and regulation within social entities; and (3) since society can be studied scientifically, sociology is worthy of recognition in the academic world. Durkheim was successful on all three counts.

- In his study of suicide, Durkheim's main purpose was:
 - to document that suicide can be explained without reference to the individual.
 - to provide an explanation of the variation in the rate of suicide across societies.
 - to categorise various types of suicides.
 - to document that social behaviour can be explained by social rather than psychological factors.
 - to explain the reason behind the survival rate of suicide person
- According to Durkheim, suicide rates within a social entity can be explained in terms of:
 - absence of social ties.
 - disruption of social regulation.
 - nature of social integration.
 - (a), (b) and (c)
 - only (a) and (b)
- Since single adults are not heavily involved with family life they are more likely to commit suicide, which Durkheim categorized as:
 - anomic suicide.
 - altruistic suicide.
 - egoistic suicide.
 - (b) and (c).
 - (a), (b) and (c)
- Higher suicide rates during rapid progress in a society is a manifestation of:
 - altruistic suicide.
 - anomic suicide.
 - egoistic suicide.
 - anorexic suicide
 - None of the above.
- Ritual suicide of Hindu widows on their husband's funeral pyres was:
 - a manifestation of strong social integration.
 - an example of brutality against women.
 - an example of anomic suicide.
 - an example of egoistic suicide.
 - an example of bravery
- Increase in the suicide rate during economic depression is an example of
 - altruistic suicide.
 - anomic suicide.
 - egoistic suicide.
 - both (a) and (c).
 - allergic suicide
- According to Durkheim, altruistic suicide is more likely among:
 - military personnel than among civilians.
 - single people than among married people.
 - divorcees than among married people.

- (d) people involved in nationwide economic crises.
(e) young people
8. To support his contentions, Durkheim relied on the following indicators:
(a) Social behaviour is explicable predominantly through social factors.
(b) Suicide is contingent upon the degree of regulation and interaction.
(c) Recognising sociology to acknowledge that society is susceptible to scientific investigation.
(d) (a), (b) and (c) (e) none of the above.
9. Basing himself on his own indicators, Durkheim was:
(a) Right on some counts, not others.
(b) Vindicated on all counts.
(c) Wrong but did not realize that he was right.
(d) Substantially correct but formally wrong.
(e) hypothetically correct but morally wrong.
- Directions (10-15):** In each of the following sentences, two parts of the sentence are left unfinished. Beneath each sentence, five different ways of completing the sentence are indicated. Choose the best alternative among the five.
10. The telephone symbolizes that awkward _____ in all communication technologies; while it _____ to bring us together, it keeps us apart.
(a) paradox, needs (b) irony, intends
(c) paradox, tries (d) irony wishes (e) moment, joins
11. In these bleak and depressing times of _____ prices, non-performing governments and _____ crime rates, Virat Kohli has given us Indians a lot to cheer about.
(a) escalating, increasing (b) spiraling, booming
(c) spiraling, soaring (d) ascending, debilitating
(e) sporadic, deteriorating
12. The Internet is a medium where users have nearly _____ choices and _____ constraints about where to go; and what to do.
(a) unbalanced, non-existent
(b) embarrassing, no (c) unlimited, minimal
(d) choking, shocking (e) restricted, nominal
13. The Athenians on the whole, were peaceful and prosperous; they had _____ to sit at home and think about the universe and dispute with Socrates, or to travel abroad and _____ the world.
(a) leisure, explore (b) time, ignore
(c) ability, suffer (d) temerity, understand
(e) problems, roam
14. Their achievement in the field of literature is described as _____; sometimes it is even called _____.
(a) magnificent, irresponsible
(b) insignificant, influential (c) significant, paltry
(d) unimportant, trivial (e) amorous, infidel
15. From the time she had put her hair up, every man she had met had groveled before her and she had acquired a mental attitude toward the other sex which was a blend of _____ and _____.
(a) admiration, tolerance (b) indifference, contempt
(c) impertinence, temperance (d) arrogance, fidelity
(e) appreciation, fidelity

Solutions

- (a); Emile Durkheim's main purpose was- to document that suicide can be explained without reference to the individual.
- (d); According to Durkheim, suicide rates within a social entity can be explained in terms of- absence of social ties, disruption of social regulation and nature of social integration.
- (d); altruistic suicide, egoistic suicide.
- (b); Higher suicide rates during rapid progress in a society is a manifestation of: -anomic suicide.
- (a); Ritual suicide of Hindu widows on their husband's funeral pyres was: a manifestation of strong social integration.
- (b); Increase in the suicide rate during economic depression is an example of-anomic suicide.
- (a); According to Durkheim, altruistic suicide is more likely among: military personnel than among civilians.
- (d); To support his contentions, Durkheim relied on the following indicators: - Social behaviour is explicable predominantly through social factors, Suicide is contingent upon the degree of regulation and interaction, Recognising sociology to acknowledge that society is susceptible to scientific investigation.
- (b); Basing himself on his own indicators, Durkheim was: - Vindicated on all counts.
- (c); Paradox, tries fit in the context of the sentence correctly.
- (c) Spiraling, soaring fit in the context of the sentence correctly.
- (c); Unlimited, minimal fit in the context of the sentence correctly.
- (a); Leisure, explore fit in the context of the sentence correctly.
- (d); Unimportant, trivial fit in the context of the sentence correctly.
- (b); Indifference, contempt fit in the context of the sentence correctly.

DESCRIPTIVE ENGLISH : How to Write an Essay

As you are all aware that with the exam season here, you now need to take your preparations to another level. Leaving no stone unturned. Covering each and every aspect of the exam. Now the upcoming exam i.e. the SSC Mains will be testing your descriptive writing skills.

Q. What is the aim of having this section in exams?

Well the SSC want to know how well versed you are with English language and how well can you put across your thoughts on a topic in writing.

Q. How to improve our English?

Well English is like any other language, the more you expose yourself to it, the better you will get at it. So make sure you read a lot on a daily basis. Along with this just add one more exercise to this, i.e. to copy down one editorial section in a notebook on a daily basis, while copying down give special attention to the language, the way grammar is used, the way words come together to form sentences. This exercise will not only help improve your English but will also improve your writing skills.

Q. How to improve our writing skills and skills to express on a given topic?

Well for that make a list of topics that you feel that can come in exam, and then on read about them. Once you have an idea about the topic, try writing it down in your own words. Slowly and steadily you will be able to express yourself in any given topic.

How to write an essay?

1. Analyze the prompt.

Note exactly what is asked in the question.

Write down the prompt on the rough page.

Underline the key words in the prompt. Look for words like "explain," "identify," "analyze" or "define."

Break down the prompt into components. If you are to "identify" something and then "analyze" it, then write 1 paragraph identifying what's requested and a second paragraph analyzing what you identified.

2. List all of your ideas.

Write short sentence fragments or keywords of all of the facts that you can remember. These should be facts that will support the arguments or statements that you will make in your essay.

3. Write a thesis statement for the entire essay.

This statement should identify the point that you will make in your essay.

Avoid writing statements about yourself. For instance, don't write "I think" or "The point I will make today is..." Make the thesis statement specific. When writing about an interpretation, use neutral language to state your opinion. Write "Jawahar Lal Nehru will always be remembered as a great Indian Prime Minister because he arguably ended the slavery in India." Avoid writing "Everyone thinks Jawahar Lal Nehru is the best Prime Minister in history."

Make every paragraph in your essay after carefully considering the thesis statement.

4. Divide the facts that you listed earlier into 2 to 4 groups.

Note the common characteristics of the points in each group. The common characteristics will become the topic sentences for your body paragraphs.

Discard ideas that don't support your main points. Adding additional ideas will make your writing unfocused.

Rank each group in order of importance. Start with the least important point in your first body paragraph and conclude with your strongest point in your last body paragraph.

5. Write the topic sentences for your body paragraphs.

Use 1 or 2 sentences for each supporting point in your paragraphs. Make sure the sentences directly relate to the paragraph's topic sentence.

State the supporting point. Then, state why the point is important. Never write something down without explaining its significance.

6. Write the concluding statements for each paragraph.

Restate the argument that you made in your topic sentence.

7. Create a short introduction for your essay.

For example, use a fact, quote or statistic that relates to your thesis statement. Your thesis statement should be the last sentence of your introduction.

8. Write a conclusion. The conclusion should restate the thesis statement, briefly summarize the arguments that you made and finish by stating the ultimate point of your essay.

Few points to remember while writing essay:

1. Choose the title very carefully in which you are perfectly at home. Never choose a title about which you have only hazy and ambiguous ideas.
2. You must jot down your points or ideas before you start writing the essay.
3. Do not go against the title generally.
4. The introduction should be direct and relevant. Do not beat about the bush and deviate from the title too much.
5. Avoid your essay with redundant quotations which might show lack of expression.
6. Do not use stale idioms and clichés too much like 'leaving no stone unturned' or 'Rome was not built in a day'.
7. Put each main idea in to a separate paragraph.
8. You must not give numbers to paragraphs nor is there any need of giving sub-headings.
9. Avoid the use of slang and colloquial terms and try to develop a graceful, dignified and literary style.
10. The essay should be written in a simple language. Sentences should be terse and short.
11. Let the tone of the essay be informative and suggestive.
12. Always remember that the beginning and the ending of an essay are very important, so give them the maximum attention.
13. Never give a categorical or one-sided conclusion. The conclusion should always be balanced one.
14. Write in a beautiful and legible handwriting. A pleasing handwriting is always an asset

You must revise your essay after completion to correct the mistakes, if any.

SSC-CGL (TIER-I) Memory Based Mock held on 27th August 2016

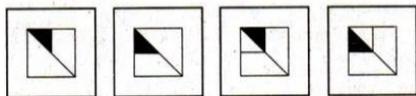
GENERAL INTELLIGENCE & REASONING

1. Which answer figure will complete the question figure?

Question Figure :



Answer Figures :



(a) (b) (c) (d)

2. A word is represented by only one set of number as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets by two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'R' can be represented by 02, 10, 31, etc. and 'O' can be represented by 56, 67, 75, etc. Identify the set NOT for the word PENT.

Matrix-I

	0	1	2	3	4
0	E	S	R	U	N
1	R	N	S	E	U
2	U	E	N	R	S
3	S	R	U	N	E
4	N	U	E	S	R

Matrix-II

	5	6	7	8	9
5	W	O	P	T	I
6	T	I	O	W	P
7	O	W	I	P	T
8	I	P	T	O	W
9	P	T	W	I	O

(1) 95, 00, 33, 79

(2) 69, 34, 04, 87

(3) 57, 02, 34, 87

(4) 78, 42, 11, 58

3. Directions: Two/ three statements are given followed by four conclusions I, II, III & IV. You to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which one of the given conclusions is definitely drawn from the given statements.

Statements: I. All minutes are seconds.

II. All seconds are days. III. No day is night.

Conclusions: I. Some seconds are minutes.

II. Some days are seconds.

III. No night is day.

IV. All minutes are days.

(a) Only I follows

(b) Only I and II follow

(c) Only III follows

(d) All I, II, III & IV follow

4. 64 : 144 :: 256 : ?

(a) 16

(b) 32

(c) 400

(d) 336

5. ACEG : ZXVT :: HJLN : ?

(a) QOMK

(b) SRPO

(c) RPNL

(d) SQOM

Directions (6-13): Find the missing letters/number from the given responses.

6. 167, 146, 119, 102, ?

(a) 99

(b) 74

(c) 79

(d) 101

7. 5, ?, 23, 47, 95, 191 .

(a) 13

(b) 10

(c) 17

(d) 11

8. A, P, C, Q, E, R, G, ?, ?

(a) SI

(b) HI

(c) IS

(d) TJ

9. FLU, GMV, HNW, IOX, ?

(a) JPY

(b) WYP

(c) WPY

(d) JPW

10. 2, 5, 9, 19, 37 ?

(a) 73

(b) 75

(c) 76

(d) 78

11. ACE, GIK, BDF, ?

(a) JHM

(b) HJI

(c) HJL

(d) MJH

12. WBP, SGM, OLI, ?

(a) NPH

(b) KQG

(c) LPG

(d) MQC

13. 1, 4, 10, 19, 31, ?

(a) 46

(b) 50

(c) 55

(d) 43

14. Which is the mirror image of WATERFALL ?

(a)

(b)

(c)

(d)

15. From the given alternative words, select the word which can be formed using the letters of the given word?

PRONUNCIATION

(a) Proud

(b) Natural

(c) Pronoun

(d) Protect

16. In a certain code, PRODUCTIONS is written as QQPCVEUHPMT. How is ORIENTATION written in that code?

(a) PQJDOVBSJNO

(b) PQJDOUBUJPO

(c) PSJFOVBSJNO

(d) NESHFMBVBSJNO

Directions (17-19): Select the one which is different from the other three responses.

17. (a) Mizoram

(b) Sikkim

(c) Kohima

(d) Manipur

18. (a) Amoeba

(b) Bacteria

(c) Germs

(d) Microbes

19. (a) 81 : 243

(b) 16 : 64

(c) 64 : 192

(d) 25 : 75

20. If you are facing north-east and move 10 m forward, turn left and move 7.5 m, then you are

(a) North of your initial position

(b) south of your initial position

(c) east of your initial position

(d) 12 m from your initial position

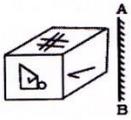
21. From the given alternatives, select the word which cannot be formed using the letters of the given word.

CONSIDERATION

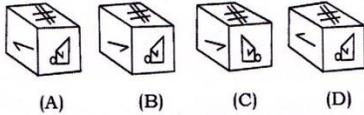
- (a) CONSIDER (b) CONCERN
(c) NATION (d) RATION

22. If a mirror is placed on the line AB, then which of the figures is the right mirror image of the question figure?

Question Figure :



Answer Figure :



Directions (8 – 9) : Find the wrong number in the series?

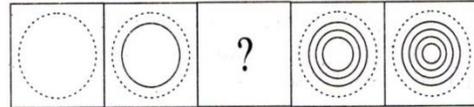
23. 2, 5, 12, 26, 58, 121,

- (a) 5 (b) 12
(c) 26 (d) 58

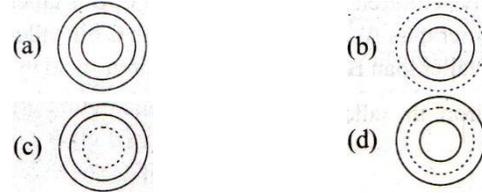
24. Directions: In question, which one of the given responses would be a meaningful order of the following words in ascending order?

1. Sapling 2. Tree 3. Plant 4. Seed
(a) 1, 3, 4, 2 (b) 1, 4, 3, 2
(c) 3, 4, 1, 2 (d) 4, 1, 3, 2

25.



Select a suitable figure from the Answer Figures that would replace the question mark (?).



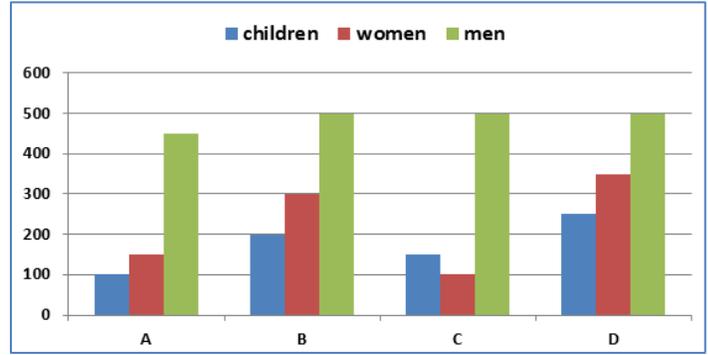
QUANTITATIVE APTITUDE

26. $\tan(45 + x) = \sqrt{3}$, then find the value of x
(a) 15° (b) 20°
(c) 18° (d) 12°
27. In $\triangle ABC$, $AB = a - b$ and BC is $2\sqrt{ab}$ then find angle B
(a) 60° (b) 30°
(c) 90° (d) 45°
28. From 40 m away from the foot of a tower elevation angle is 60° . Then find the height of a tower
(a) $\frac{120}{\sqrt{3}}$ (b) $\frac{60}{\sqrt{3}}$
(c) $\frac{50}{\sqrt{3}}$ (d) $\frac{130}{\sqrt{7}}$
29. Find the altitude of an equilateral triangle if the side of triangle is 16 cm.
(a) $4\sqrt{3}$ (b) $6\sqrt{3}$
(c) $2\sqrt{3}$ (d) $8\sqrt{3}$
30. If $x = 1 + \sqrt{2} + \sqrt{3}$, then find $x^2 - 2x + 4$.
(a) $2(7 + \sqrt{6})$ (b) $2(4 + \sqrt{6})$
(c) $2(3 + \sqrt{7})$ (d) $(4 + \sqrt{6})$
31. Find the S.I. on a sum of Rupees 2000, if rate of interest is 75 Rs. per thousand and time is 2 year.
(a) 300 (b) 250
(c) 375 (d) 285
32. Find the ratio of radius of sphere and hemisphere having same total surface area :
(a) $2 : \sqrt{3}$ (b) $\sqrt{3} : 2$
(c) $4 : \sqrt{3}$ (d) $\sqrt{3} : 4$
33. A wall of 15 m 17 cm width and 9 m 2 cm length can be covered by how many square tiles of size 41 cm.
(a) 814 (b) 823
(c) 921 (d) 869
34. If $x = a^{\frac{1}{2}} + a^{-\frac{1}{2}}$, $y = a^{\frac{1}{2}} - a^{-\frac{1}{2}}$, then value of $(x^4 - x^2y^2 - 1) + (y^4 - x^2y^2 + 1)$
(a) 13 (b) 12
(c) 14 (d) 16
35. A person brought 500 items in 20,000 Rs. at what profit percent he should sell the items so that he gain 50 items.
(a) 10% (b) 12%
(c) 15% (d) 18%
36. Successive discount of 20% and 10% is given on an item of Rs. 700, find the selling price.
(a) 504 (b) 196
(c) 582 (d) 601
37. 10% of X is 3 times of 15% of Y then find X : Y.
(a) 7 : 2 (b) 9 : 2
(c) 8 : 3 (d) 11 : 4
38. Mother's age is 10 times of her daughter and 10 years from now the ratio of their age is 4 : 1. Then find the average of their age 5 year later.
(a) 32.5 (b) 31.5
(c) 29.5 (d) 30.5
39. Find the value of $3 \tan^2 45^\circ - \sin^2 60^\circ - \frac{1}{2} \cot^2 30^\circ + \frac{1}{8} \sec^2 45^\circ$
(a) 1 (b) 2
(c) 3 (d) 4
40. Find the value of $\frac{1}{1+\tan^2 \theta} + \frac{1}{1+\cot^2 \theta}$
(a) $\frac{1}{4}$ (b) 1
(c) 2 (d) $\frac{1}{2}$
41. A car completes a journey in 10 hours, if it covers half of the journey at 40 km/hr and the remaining at 60 km/hr. The distance covered by car is:
(a) 400 km (b) 480 km
(c) 380 km (d) 300 km
42. Two rifles are fired from the same place at a difference of 11 min 45 seconds. But a man who is coming towards the place in a train hears the second sound after 11 min. Find the speed of the train (assuming speed of sound = 330 m/s)
(a) 72 km/hr (b) 36 km/hr

- (c) 81 km/hr (d) 108 km/hr
43. If $a + \frac{1}{a-2} = 4$, then the value of $(a-2)^2 + \left(\frac{1}{a-2}\right)^2$ is
 (a) 0 (b) 2
 (c) -2 (d) 4
44. If $a = 258$, $b = 260$ and $c = 262$ the value of $a^3 + b^3 + c^3 - 3abc$ is
 (a) 9360 (b) 6240
 (c) 7040 (d) 10560
45. A wall of 8 m 12 cm width and 7 m 59 cm length can be covered by how many square tiles of size 58 cm.
 (a) 183 (b) 11528
 (c) 10248 (d) 10626
46. If the price of sugar increases by 20%, one can buy 2 kg less for Rs. 50. What is the amount of sugar that could be bought before price hike ?
 (a) 10 kg (b) 12 kg
 (c) 14 kg (d) 16 kg.
47. 2 men and 5 women can complete a piece of work in 12 days. 5 men and 2 women can complete the same work in 9 days. In how many days can 3 women complete the work alone.
 (a) 36 days (b) 21 days
 (c) 30 days (d) 42 days

Direction (48-50): Study the following graph and answer the following questions:

Number of men, women and children in different villages in Delhi (in thousands) in 2015



48. Number of men in village A is what percent of number of women and children together in village C?
 (a) 160% (b) 200%
 (c) 180% (d) 140%
49. What is the ratio of number of women in village B to number of children in village D?
 (a) 6:5 (b) 3:5
 (c) 5:4 (d) 7:5
50. What is the average number of children taking all four villages together ?
 (a) 165 (b) 180
 (c) 195 (d) 175

ENGLISH LANGUAGE

Directions (51-53): In these questions, four alternatives are given for the idiom/phrase given in **bold** in the sentence. Choose the alternative which best expresses the meaning of the idiom/phrase given in **bold**.

51. Fit like a glove
 (a) to fit snugly (b) something tight and sticky
 (c) soft and easy to ware (d) difficult to hold
52. Pull a long face
 (a) to make fun (b) to look sad
 (c) to irritate someone (d) pull someone's face
53. Cat nap
 (a) take a long sleep (b) sleep like a cat
 (c) make a snorting while sleeping
 (d) to sleep briefly

Directions (54-55): In these questions, out of the four alternatives, choose the one which best expresses the **meaning** of the word given in **bold**.

54. SOOTHE
 (a) agitate (b) perturb
 (c) fluster (d) mollify
55. Devastate
 (a) ransack (b) physique
 (c) constitution (d) corpus

Directions (56-57): In these questions, out of the four alternatives choose the word **opposite** in meaning to the word given in **bold**.

56. Epitome
 (a) quintessence (b) paragon
 (c) abridge (d) incarnation
57. Gumption

- (a) ingenuity (b) stupidity
 (c) sagacity (d) acumen

Directions (58-60): In the following questions, out of the four alternatives choose the one which can be substituted for the given words/sentence.

58. Person working in some organization
 (a) colleague (b) antagonist
 (c) opposer (d) detractor
59. Money given to agent on sales
 (a) help (b) commission
 (c) assignment (d) endeavor
60. A system of government in which only one political party is allowed to function
 (a) Oligarchy (b) Dictatorship
 (c) Totalitarianism (d) Theocracy

Directions (61): In these questions, four words are given out of which only one is **incorrectly spelt**. Find the **incorrectly spelt** word.

61. (a) connaisseur (b) conoisneur
 (c) connoisseur (d) connoisseur

Directions (62-64): In these questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four alternatives.

62. A person came in with a baby who, she said, a safety pin.
 (a) swallowed (b) just swallowed
 (c) had just swallowed (d) was just swallowing
63. When I was a child, I..... to school everyday instead of going by cycle.

- (a) walked (b) have been walking
(c) had walked (d) have walked

64. The waiter hasn't bought the coffee I've been here an hour already.

- (a) still (b) yet
(c) up (d) till

Directions: (65-67): In these questions, read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is (D). (Ignore errors of Punctuation, if any.)

65. I used a pair of trouser for a week

- (a) I used a (b) a pair of trouser
(c) for a week. (d) No error

66. He has made a mistake and of which I am certain

- (a) He has made a (b) mistake and of
(c) which I am certain (d) No error

67. He was not allowed for the teacher to speak in low voice

- (a) He was not allowed (b) for the teacher to
(c) speak in low voice (d) No error

Directions: (68-70): In these questions, a sentence or a part of sentence is underlined. Below are given alternatives to the underlined part which may **improve the sentence**. Choose the correct alternative. In case no improvement is needed, your answer is (D).

68. She **cut a sad figure** in her first performance on the stage.

- (a) made a sorry figure (b) cut a sorry face
(c) cut a sorry figure (d) No improvement

69. What **does agonise me most** is not this criticism, but the trivial reason behind it.

- (a) I most agonised (b) most agonizing me
(c) agonises me most (d) No improvement

70. Your results depend not only on how much you have studied **but how long** you have read.

- (a) but also how long (b) but also on how long
(c) but also on how much long
(d) No improvement

Directions (71-75): Read the passages carefully and choose the best answer to each question out of the four alternatives.

India and China have developed two distinct forms of centrist elitist states which are very different but which share common characteristics. First of all, they are highly centrist in nature which means that they exhibit a compelling urge to gather power into the government, and then to hold such power at the national government level. Both have made significant delegations to state level governments, but China in particular believes in the central control of decentralized operations. There is a collateral urge to concentrate power in the hands of a small elite group especially around the power of economic development. In both cases, the logic is that centralized power is more easily controlled and manipulated, and that any sharing of power invites the undesirable prospect of having to negotiate and perhaps to be forced to compromise.

This centrist urge is common to all forms of government: democracies, dictatorships, state socialist regimes, and even in Islamic states, where many of the control mechanisms are guided or compelled by religious imperatives rather than secular principles. While the key to power is usually economic,

governments that are particularly authoritarian seek to extend their control to all elements of society: political, economic, social services, and even the definition of acceptable national cultural mores.

Once in power, centrist governments tend to become the captives of their own compelling need to hold on to power. They become very "doctrinaire"; that is, they use a doctrine or philosophy as justification for the correctness of their position and as a political justification for holding on to their power. Examples include the 65 year history of state communism in the Soviet Union, most of Eastern Europe, Cuba, China and North Korea. Islamic states tend to rely heavily on religious doctrine as defined in the Qur'an and Shari'a. Most political parties establish some degree of a doctrinal base as a means to attract supporters and define what the party stands for. The great wave of movement toward state socialism was **elaborately** defined by doctrine that emphasized the necessity for state control of national social services and large segments of the national economy, accompanied by official suspicion of the private sector, and this pattern persists officially in China, even where communist/socialist doctrine has lost a good deal of its relevance. Ruling elites, even if essentially honest, are still narrow in vision, often isolated and unrealistic in their understandings, and tend to be reactionary, parochial, self-centered and self-important.

71. Consider the following statements:

- I. Both have made significant delegations to state level governments, but India in particular believes in the central control of decentralized operations.
- II. There is a collateral urge to concentrate power in the hands of a small elite group especially around the power of economic development.

Which of the statements given above is/are correct?

- (a) I only (b) II only
(c) Both I and II (d) Neither I nor II

72. What is the biggest difference between these two countries?

- (a) China is more populated country than India
(b) Form of government
(c) Height of the people of two countries
(d) None of the above

73. What could be the suitable 'title' of the above passage?

- (a) A Comparison Of India And China
(b) Who is bigger; India or China
(c) Politics in India and China (d) None of the above

74. Consider the following statements:

- I. Not all political parties establish degree of a doctrinal base as a means to attract supporters and define what the party stands for.
- II. The great wave of movement toward state socialism was elaborately defined by doctrine that emphasized the necessity for state control of national social services and large segments of the national economy

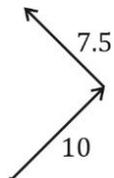
Which of the statements given above is/are incorrect?

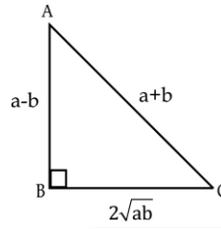
- (a) I only (b) II only
(c) Both I and II (d) Neither I nor II

75. Choose the word which is most opposite in meaning to **elaborately** as used in the passage.

- (a) complicated (b) tangled
(c) intricate (d) plain

HINTS

1. (c)
2. (c)
3. (d); All I, II III & IV follow
4. (c); $8^2 : (12)^2 :: 16^2 : (20)^2$
400
5. (d); $H \rightarrow S$
 $J \rightarrow Q$
 $L \rightarrow O$
 $N \rightarrow M$
Letters are replaced by the corresponding number which counts the same while counting from other end.
6. (c); $11 \times 11 - 2$
 $10 \times 10 + 2$
 $9 \times 9 - 2 = 79$
7. (d); This series is $-(n \times 2) + 1$
 $5 \times 2 + 1 = 11$
8. (a); There are two series
 $1 \rightarrow A \xrightarrow{B} C \xrightarrow{D} E \xrightarrow{F} G \rightarrow I$
 $P \rightarrow Q \rightarrow R \rightarrow \boxed{S}$
9. (a);
 $F \rightarrow G \rightarrow H \rightarrow I \rightarrow \boxed{J}$
 $L \rightarrow M \rightarrow N \rightarrow O \rightarrow \boxed{P}$
 $U \rightarrow V \rightarrow W \rightarrow X \rightarrow \boxed{Y}$
10. (b); This series is as —
 $(n \times 2) + 1, (n \times 2) - 1$
 $(2 \times 2) \times 1, (5 \times 2) - 1, (9 \times 2) + 1, (19 \times 2) - 1, (37 \times 2) + 1$
 $= 75$
11. (c); H J L
12. (b)
13. (a); $+3, +6, +9, +12, +15$
 $= 31 + 15$
 $= 46$
14. (d)
15. (c)
16. (b); $P + 1, R - 1 \rightarrow Q$
17. (c)
18. (a)
19. (b)
20. (a);

21. (b)
22. (b)
23. (c); $2 \times 2 + 1, 5 \times 2 + 2, 12 \times 2 + 3 = \underline{27}$
24. (d)
25. (b)
26. (a); $\tan (45+x) = \tan 60$
 $x = 15^\circ$
27. (c);



$$AC = \sqrt{(a-b)^2 + (2\sqrt{ab})^2}$$

$$AC = a + b$$

$$\text{so } \angle B = 90^\circ$$

$$28. (a); \tan 60 = \frac{h}{40}$$

$$h = 40 \times \sqrt{3}$$

$$= \frac{120}{\sqrt{3}}$$

$$29. (d); \text{Altitude} = \sqrt{16^2 - 8^2}$$

$$= \sqrt{192}$$

$$= 8\sqrt{3}$$

$$30. (b); x - 1 = \sqrt{2} + \sqrt{3}$$

$$(x - 1)^2 = (\sqrt{2} + \sqrt{3})^2$$

$$x^2 - 2x + 1 = 2 + 3 + 2\sqrt{6}$$

$$x^2 - 2x + 4 = 8 + 2\sqrt{6}$$

$$= 2(4 + \sqrt{6})$$

$$31. (a); \text{Rate of interest} = 7.5\%$$

$$\text{S.I.} = \frac{2000 \times 7.5 \times 2}{100}$$

$$= 300$$

$$32. (b); 4\pi R^2 = 3\pi r^2$$

$$\frac{R^2}{r^2} = \frac{3}{4}$$

$$\frac{R}{r} = \sqrt{3} : 2$$

$$33. (a); \text{number of tiles} = \frac{1517 \times 902}{41 \times 41}$$

$$= 814$$

$$34. (d); x^2 = a + \frac{1}{a} + 2$$

$$y^2 = a + \frac{1}{a} - 2$$

$$x^2 - y^2 = 4$$

Sq. both side

$$x^4 + y^4 - 2 \cdot x^2 y^2 = 16$$

$$(x^4 - x^2 y^2 - 1) + (y^4 - x^2 y^2 + 1) = 16$$

$$35. (a); \text{CP of one article} = \frac{20,000}{500}$$

$$= 400$$

Profit = C. P. of 50 Article

$$= 50 \times 40$$

$$= 2000$$

$$\text{Profit percent} = \frac{2000}{20,000} \times 100 = 10\%$$

$$36. (a); \text{Selling price} = 700 \times \frac{80}{100} \times \frac{90}{100}$$

$$= 504$$

$$37. (b); \frac{10}{100}x = 3 \times \frac{15}{100}y$$

$$\frac{x}{3 \times 15} = \frac{y}{10}$$

$$\frac{x}{y} = \frac{10}{10}$$

- $= \frac{9}{2}$
38. (a); $M = 10d$
 $\frac{M + 10}{d + 10} = \frac{4}{1}$
 $10d + 10 = 4d + 40$
 $6d = 30$
 $d = 5$
 $M = 50$
 $\text{avg.} = \frac{55+10}{2} = 32.5$
39. (a); $\Rightarrow 3 - \frac{3}{4} - \frac{3}{2} + \frac{1}{8} \times 2$
 $= 1$
40. (b); $\frac{1}{\sec^2\theta} + \frac{1}{\operatorname{cosec}^2\theta}$
 $= \sin^2\theta + \cos^2\theta$
 $= 1$
41. (b); Let the total distance = 2d
 $\frac{d}{40} + \frac{d}{60} = 10$
 $\frac{3d+2d}{120} = 10$
 $5d = 10 \times 20$
 $d = 240$
 $2d = 480$
42. (c) From the question it is cleared that train travels a distance in 11 min which is travel by bullet's sound in 45 seconds.
 Total distance = 45×330 m
 Total time = 11 min = 11×60 sec
 Speed of train = $\frac{45 \times 330}{11 \times 60} \times \frac{5}{18} = 81$ km/hr
43. (b); $a - 2 + \frac{1}{a-2} = 2$
 Sq. both side
 $(a - 2)^2 + \frac{1}{(a - 2)^2} + 2 = 4$
 $= 4 - 2$
 $= 2$
44. (a); $a^3 + b^3 + c^3 - 3abc = \frac{1}{2}(a + b + c)[(a - b)^2 + (b - c)^2 + (c - a)^2]$
 $= 390 \times 24$
 $= 9360$
45. (a); Number of tiles = $\frac{812 \times 759}{58 \times 58}$
 ≈ 183
46. (b); Let the initial price be x/kg
 $\frac{50}{x} - \frac{50 \times 100}{x \times 120} = 2$
 $x = \frac{50}{12}/\text{kg}$
 Amount = $\frac{50 \times 12}{50} = 12$ kg
47. (a); $2m + 5w = 12$
 $24m + 60w = 1$ (i)
 $45m + 18w = 1$
 $24m + 60w = 45m + 18w$
 $42w = 21m$
 $6w = 3m$
 $2w = 1m$
- 9w can do work in 12 days 3w can do it in 36 days
48. (c) $\frac{450}{250} \times 100 = 180\%$
49. (a) $\frac{250}{300} = 6 : 5$
50. (d) $= \frac{100 + 200 + 150 + 250}{4} = 175$
51. (a) **Fit like a glove** - to fit very well; to fit snugly
52. (b) **Pull a long face**- to show that you do not like something or someone by making an unpleasant expression
53. (d) **Cat nap**- A short nap; a light sleep.
54. (d); **SOOTHE**- gently calm (a person or their feelings). **Mollify**- appease the anger or anxiety of (someone).
55. (a); **Devastate**- cause (someone) severe and overwhelming shock or grief. **Ransack**- go through (a place) stealing things and causing damage.
56. (c); **Epitome**- a summary of a written work; an abstract. **Abridge**- shorten (a book, film, speech, etc.) without losing the sense.
57. (b) **Gumption**- shrewd or spirited initiative and resourcefulness. **Stupidity**- behaviour that shows a lack of good sense or judgement.
58. (a) **Colleague**- a person with whom one works in a profession or business.
59. (b) **Commission**- an instruction, command, or role given to a person or group.
60. (c) **Totalitarianism**- relating to a system of government that is centralized and dictatorial and requires complete subservience to the state
61. (d) **Connoisseur**- an expert judge in matters of taste
62. (c)
63. (a)
64. (d)
65. (b)
66. (c)
67. (b)
68. (c)
69. (c)
70. (b)
71. (b) **Refer to paragraph 1st** , "There is a collateral urge to concentrate power in the hands of a small elite group especially around the power of economic development".
72. (b) Type of government both country have is totally opposite and that's the biggest difference between both countries.
73. (a)
74. (a) **Refer to paragraph 3rd** , "Most political parties establish some degree of a doctrinal base as a means to attract supporters and define what the party stands for".
75. (d) **elaborately**- involving many carefully arranged parts or details; detailed and complicated in design and planning. **Plain**- not decorated or elaborate; simple or basic in character.

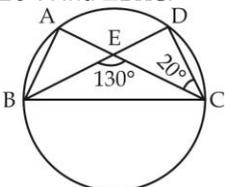
SSC-CGL (TIER-II) 2016 : QUANT PRACTICE SET

QUANTITATIVE APTITUDE

- A Boy read $\frac{3}{8}$ part of a book in 1 day and $\frac{4}{5}$ of remaining on 2nd day. If there were 45 pages unread. Then number of pages in the book?
 - 480
 - 360
 - 520
 - 480
- The elevation of a tower at a station A due north of it is α and at a station B due west of A is β . Then the height of the tower is —
 - $\frac{AB \sin \alpha \sin \beta}{\sqrt{\sin^2 \alpha - \sin^2 \beta}}$
 - $\frac{AB \sin \alpha \cos \beta}{\sqrt{\sin^2 \alpha - \sin^2 \beta}}$
 - $\frac{AB \sin \alpha \sec \beta}{\sqrt{\sin^2 \alpha - \sin^2 \beta}}$
 - $\frac{AB \operatorname{cosec} \alpha \sin \beta}{\sqrt{\sin^2 \alpha - \sin^2 \beta}}$
- The angle of elevation of the top of a tower from a point A due south of the tower is α and from B due to east of the tower is β . If $AB = d$, then the height of tower is
 - $\frac{d}{\sqrt{\cot^2 \alpha + \cot^2 \beta}}$
 - $\frac{d}{\sqrt{\cot^2 \alpha - \cot^2 \beta}}$
 - $\frac{d}{\sqrt{1 - \tan^2 \beta}}$
 - $\frac{d}{\sqrt{1 - \cot^2 \alpha}}$
- In a classroom there are certain number of benches. If 10 students are made to sit on each bench then 1 more bench needed, but if 11 students are made to sit then 8 students are left. Find students in class?
 - 170
 - 190
 - 210
 - 222
- 2 men and 5 women can complete a piece of work in 12 days. 5 men and 2 women can complete the same work in 9 days. In how many days can 3 women complete the work alone.
 - 36 days
 - 21 days
 - 30 days
 - 42 days
- Arun and Twinkle can dig a trench 100 m long in 10 and 20 hours respectively. At what distance from Arun should Arun and Twinkle interchange their positions so that they meet exactly at the centre if they start from opposite ends.
 - 33.33 m
 - 25 m
 - 40 m
 - 27 m
- Average age of 6 sons of a family is 8 years. Average age of sons together with their parents is 22 years. If the father is older than the mother by 8 years, the age of mother (in years) is :
 - 44
 - 52
 - 60
 - 68
- The H.C.F and the product of two no's are 15 and 6300. The number of possible pair of numbers is:
 - 2
 - 3
 - 4
 - 7
- $2 \operatorname{cosec}^2 23^\circ \cot^2 67^\circ - \sin^2 23^\circ - \sin^2 67^\circ - \cot^2 67^\circ$ is equal to
 - 1
 - $\sec^2 23^\circ$
 - $\tan^2 23^\circ$
 - 0
- If $\tan \theta = \frac{\sin \alpha - \cos \alpha}{\sin \alpha + \cos \alpha}$, then $\sin \alpha + \cos \alpha$ is
 - $\pm \sqrt{2} \sin \theta$
 - $\pm \sqrt{2} \cos \theta$
 - $\pm \frac{1}{\sqrt{2}} \sin \theta$
 - $\pm \frac{1}{\sqrt{2}} \cos \theta$
- A well made 10 m inside dia. Is dug 14m deep. Earth taken out from it has been spread out from it has been spread all around it to a breadth of 5m to form a embankment. Find the height of embankment?
 - $4\frac{2}{3}$
 - $3\frac{4}{5}$
 - $3\frac{2}{7}$
 - $3\frac{4}{5}$
- The total surface area of a solid hemisphere is $108 \pi \text{ cm}^2$. The volume of the hemisphere is
 - $72 \pi \text{ cm}^3$
 - $144 \pi \text{ cm}^3$
 - $108\sqrt{6} \text{ cm}^3$
 - $54\sqrt{6} \text{ cm}^3$
- A alone can do a piece of work in 6 days and B alone is 8 days, A and B undertook to do it for Rs 3200. With the help of C they completed the work in 3 days. How much is to be paid to C ?
 - Rs 375
 - Rs 400
 - Rs 600
 - Rs 800
- A man covers a certain distance at a certain speed. Had he moved 4 km/hr faster. He would have taken 30min less, but if he had moved 3 km/hr slower. He would have taken 30 min more. Find the distance?
 - 76
 - 96
 - 66
 - 84
- Shatabdi express leaves lucknow at 8 : 30 A.M. and expects to reach a place 300 km from Lucknow at 12 : 30 P.M. At 10 : 30 A.M. it was found that it has covered only 40% of the distance. By how much it has to increase the speed, in order to keep up his schedule (m/sec^2)?
 - 45 km/hr
 - 40 km/sec
 - 30 km/hr
 - $8\frac{1}{3} \text{ m/sec}$.
- A can do a work in 60 days. He works for 15 days and later B alone completes the work in 30 days. In what time will they together complete the work?
 - 24 days
 - 25 days
 - 30 days
 - 32 days
- A pump can fill a tank with water in 2 hours. Due to leakage in the tank it takes $2\frac{1}{3}$ hour to get filled with water. In how much time would it get empty due to leakage in filled tank?
 - 8 hours
 - 7 hours
 - $\frac{13}{3}$ hours
 - 14 hours
- Two trains running in opposite directions cross each other in 7 sec. If the length of one of the train is 150 m, then what will be the length of the other train if they are running at a speed of 50 km/h and 58 km/h respectively?

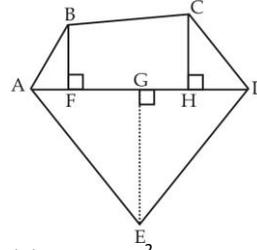
- (a) 60 m (b) 120 m
(c) 125 m (d) 100 m
19. A boat covers 30 km upstream and 44 km downstream in 10 hours. The same boat takes 13 hours to cover 40 km upstream and 55 km downstream. What is the speed of the boat in still water?
(a) 8 km/h (b) 6 km/h
(c) 11 km/h (d) 5 km/h
20. An article is marked 40% over its cost price. Two successive discounts of $14\frac{2}{7}\%$ and 10% are allowed on the marked price of the article. Find the profit/loss per cent after selling at discount.
(a) 71% loss (b) 8% profit
(c) 20% profit (d) 30% profit
21. The value of $2 + \sqrt{0.09} - \sqrt[3]{0.008} - 75\%$ of 2.80 is
(a) 0 (b) .01
(c) -1 (d) -0.7
22. In a cylindrical vessel of diameter 24 cm filled up with sufficient quantity of water, a solid spherical ball of radius 6 cm is completely immersed. Then the increase in height of water level is :
(a) 1.5 cm (b) 2 cm
(c) 3 cm (d) 4.2 cm
23. The radius of a cylinder is 10 cm and height is 4 cm. The number of centimeters that may be added either to the radius or to the height to get the same increase in the volume of the cylinder is
(a) 5 cm (b) 4 cm
(c) 25 cm (d) 16 cm
24. A cylinder has 'r' as the radius of the base and 'h' as the height. The radius of base of another cylinder, having double the volume but the same height as that of the first cylinder must be equal to
(a) $\frac{r}{\sqrt{2}}$ (b) 2r
(c) $r\sqrt{2}$ (d) $\sqrt{2}r$
25. Three girls Deepshikha, Twinkle and Kavita are playing a game by standing on a circle of radius 5 m drawn in a park. Deepshikha throws a ball to Twinkle, Twinkle to Kavita. If the distance between Deepshikha and Twinkle and between Twinkle and Kavita is 6 m each. What is the distance between Deepshikha and Kavita?
(a) 9.6 m (b) 6.8 m
(c) 12.8 m (d) 8 m

26. In Fig. A, B, C and D are four points on a circle. AC and BD intersect at a point E such that $\angle CEB = 130^\circ$ and $\angle ECD = 20^\circ$. Find $\angle BAC$.



- (a) 135° (b) 125°
(c) 85° (d) 110°

27. Polygon ABCDE is shown in the fig., find its area if AD = 8 cm, AH = 6 cm, AG = 4 cm, AF = 3 cm and perpendiculars BF = 2 cm, CH = 3 cm, EG = 2.5 cm



- (a) 19.60 cm^2 (b) 23.50 cm^2
(c) 27.35 cm^2 (d) 25.40 cm^2
28. An Aquarium is in the form of a cuboid whose external measures are 80 cm \times 30 cm \times 40 cm. The base, side faces and back face are to be covered with a coloured paper. Find the area of the paper needed?
(a) 9600 cm^2 (b) 4800 cm^2
(c) 8000 cm^2 (d) 12800 cm^2
29. A boy was asked to multiply a number by 14, but he multiplied number by 8 and got his answer 1200 less than the correct answer. Find the 12% of the number?
(a) 36 (b) 48
(c) 24 (d) 12
30. Sweety took a loan at simple interest rate of 6% in the first year with an increase of 0.5% in each subsequent year. She paid interest of Rs. 3375/- after four years. How much loan did she take?
(a) 12,500 (b) 33,250
(c) None of these (d) Can Not Determined
31. Michelle got married 9 years ago. Today her age is $1\frac{1}{3}$ times her age at the time of marriage. At present her daughter's age is one-sixth of her age. What was her daughter's age two years ago?
(a) 6 years (b) 7 years
(c) Cannot be determined (d) None of these
32. Arun invests 8% of his monthly salary, i.e. Rs. 2,880/- in Insurance Policies. Later he invests 17% of his monthly salary on Family Mediciclaim Policies; also he invests another 3% of his salary on NSCs. What is the total annual amount invested by Arun ?
(a) Rs. 10,080/- (b) Rs. 1,20,960/-
(c) Rs. 12,060/- (d) Cannot be determined
33. The annual installment which will discharge a debt of Rs. 848 due in 4 years at 4% SI is :
(a) Rs 200 (b) Rs 400.25
(c) Rs 315 (d) Rs 417.75
34. The average weight of a group of 45 girls was calculated as 67 kgs. It was later discovered that the weight of one of the girls was read as 45 kgs., whereas her actual weight was 55 kgs. What is the actual average weight of the group of 45 girls ? (Rounded off to two-decimal places)
(a) 68.10 (b) 67.36
(c) 68.16 (d) None of these
35. Simplify the following equation and choose the correct

option

$$15\frac{1}{4} + \frac{2}{3} \times 7\frac{3}{4} - 6\frac{2}{3} :$$

- (a) $15\frac{35}{36}$ (b) $13\frac{3}{4}$
 (c) $12\frac{3}{4}$ (d) $10\frac{3}{4}$

36. The area of a sector of a circle of radius 5 cm, formed by an arc of length 3.5 cm is

- (a) 8.5 cm^2 (b) 8.75 cm^2
 (c) 7.75 cm^2 (d) 7.50 cm^2

37. A pole is bent at a point above the ground due to storm. Its top just meets the ground at a distance of $8\sqrt{3}$ metres from its foot and makes an angle of 30° , then the height of the pole is

- (a) 16 metres (b) 23 metres
 (c) 24 metres (d) 10 metres

38. If $2x + y = 6$ and $x = 2$ are two linear equations, then graph of two equations meet at a point:-

- (a) (2, 0) (b) (0, 2)
 (c) (2, 2) (d) (1, 2)

39. The length and breadth of a plot are 35 m and 16 m respectively. If the rate of fencing is Rs. 7 per metre, what is cost of its fencing?

- (a) Rs. 3920 (b) Rs. 602
 (c) Rs. 714 (d) Rs. 357

40. The height of the room is 40% of its semi-perimeter. It cost Rs. 260 to paper the walls of the room with paper 50 cm wide at the rate of Rs. 2 per m allowing an area of 15 m^2 for doors and windows. The height of the room is:

- (a) 2.6m (b) 3.9m
 (c) 4m (d) 4.2m

41. A sphere and a cube have equal surface areas. The ratio of the volume of the sphere to that of the cube is

- (a) $\sqrt{\pi} : \sqrt{6}$ (b) $\sqrt{6} : \sqrt{\pi}$
 (c) $\sqrt{2} : \sqrt{\pi}$ (d) $\sqrt{\pi} : 3$

42. At the centers of two circles, two arcs of equal length subtend angles of 60° and 75° respectively. The respective ratio of the radii of the two circles is

- (a) 5 : 2 (b) 5 : 4
 (c) 3 : 2 (d) 2 : 1

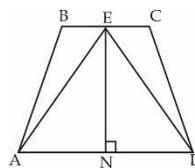
43. The sum of the first 8 terms of a geometric progression is 6560 and the common ratio is 3. The first term is

- (a) 1 (b) 2
 (c) 3 (d) 4

44. Five litres of water is added to a certain quantity of pure milk costing Rs. 3 per litre. If by selling the mixture at the same price as before, a profit of 20% is made, what is the amount of pure milk in the mixture?

- (a) 10 lit. (b) 25 lit.
 (c) 30 lit. (d) 35 lit.

45. ABCD is a trapezium with AD and BC are parallel sides. The ratio of the area of ABCD to that of AED is



- (a) $\frac{AD}{BC}$ (b) $\frac{BE}{EC}$
 (c) $\frac{AD+BE}{AD+CE}$ (d) $\frac{AD+BC}{AD}$

46. Perimeter of a rhombus is $2p$ unit and sum of length of diagonals is m unit, then area of the rhombus is :

- (a) $\frac{1}{4} m^2 p$ sq unit (b) $\frac{1}{4} m p^2$ sq unit
 (c) $\frac{1}{4} (m^2 - p^2)$ sq unit (d) $\frac{1}{4} (m^2 + p^2)$ sq unit

47. The area of circle whose radius is 6 cm is trisected by two concentric circles. The radius of the smallest circle is

- (a) $2\sqrt{3}$ cm (b) $2\sqrt{6}$ cm
 (c) 2 cm (d) 3 cm

48. Three men can complete a piece of work in 6 days. Two days after they started the work, 3 more men joined them. How many days will they take to complete the remaining work?

- (a) 1 days (b) 2 days
 (c) 3 days (d) 4 days

49. A can do a piece of work in 5 days less than the time taken by B to do it. If both of them together take $11\frac{1}{9}$ days, then the time taken by 'B' alone to do the same work (in days) is

- (a) 15 days (b) 20 days
 (c) 25 days (d) 30 days

50. Simplify : $1 + \frac{2}{1 + \frac{3}{1 + \frac{4}{1 + \frac{5}{1}}}}$

- (a) $\frac{7}{4}$ (b) $\frac{4}{7}$
 (c) $\frac{7}{5}$ (d) $\frac{3}{7}$

51. If $x = 5 - \sqrt{21}$, then the value of $\frac{\sqrt{x}}{\sqrt{32-2x}-\sqrt{21}}$ is.

- (a) $\frac{1}{2}(\sqrt{3} - \sqrt{7})$ (b) $\frac{1}{\sqrt{2}}(\sqrt{7} - \sqrt{3})$
 (c) $\frac{1}{\sqrt{2}}(\sqrt{7} + \sqrt{3})$ (d) $\frac{1}{2}(7 + \sqrt{3})$

52. The base of a solid right prism is a triangle whose sides are 9 cm, 12 cm and 15 cm, The height of the prism is 5 cm. The total surface area of the prism is

- (a) 180 cm^2 (b) 234 cm^2
 (c) 288 cm^2 (d) 270 cm^2

53. Twinkle bought an article, paying 5% less than the original price. She sold it with 20% profit on the price she had paid. What percent of profit did Twinkle earn on the original price?

- (a) 10% (b) 13%
 (c) 14% (d) $\frac{17}{2}\%$

54. An item when sold for Rs. 1,690 earned 30% profit on the cost price. Then the cost price is

- (a) Rs. 507 (b) Rs. 630
 (c) Rs. 1,300 (d) Rs. 130

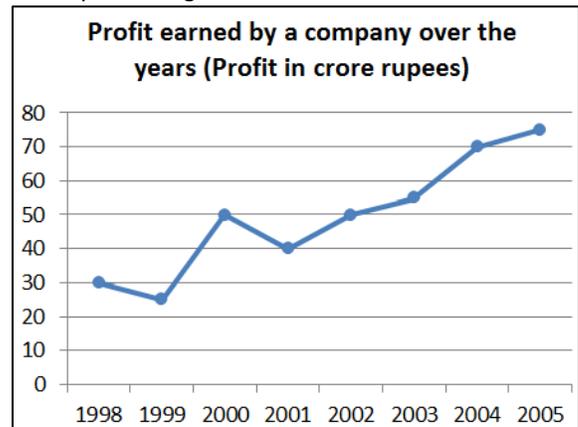
55. A box contains 420 coins of 1 rupee, 50 paise and 20 paise coins. The ratio of their values is 13 : 11 : 7. The number of 50 paise coins is

- (a) 42 (b) 78
(c) 66 (d) 132
56. A certain amount of money is divided among x, y and z. If x receives 25% more than y and y receives 25% less than z, then x : y : z is equal to
(a) 14 : 12 : 13 (b) 15 : 12 : 16
(c) 10 : 9 : 12 (d) 12 : 10 : 11
57. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, the slower pipe alone will be able to fill the tank in
(a) 81 minutes (b) 108 minutes
(c) 144 minutes (d) 192 minutes
58. Arun with $\frac{3}{5}$ of his usual speed reaches the destination $2\frac{1}{2}$ hours late. Find Arun's usual time to reach the destination.
(a) 4 hours (b) 3 hours
(c) $3\frac{3}{4}$ hours (d) $4\frac{1}{2}$ hours
59. If $x = \frac{\cos\theta}{1-\sin\theta}$, then $\frac{\cos\theta}{1+\sin\theta}$ is equal to
(a) $x - 1$ (b) $\frac{1}{x}$
(c) $\frac{1}{x+1}$ (d) $\frac{1}{1-x}$
60. At a point on a horizontal line through the base of a monument the angle of elevation of the top of the monument is found to be such that its tangent is $\frac{1}{5}$. On walking 138 metres towards the monument the secant of the angle of elevation is found to be $\frac{\sqrt{193}}{12}$. The height of the monument (in metre) is
(a) 42 (b) 49
(c) 35 (d) 56
61. Two circles touch externally. The sum of their areas is 130π sq cm, and the distance between their centres is 14 cm. The radius of the smaller circle is :
(a) 11 cm (b) 3 cm
(c) 7 cm (d) 9 cm
62. 'O' is the circumcentre of triangle ABC. If $\angle BAC = 50^\circ$ then $\angle OBC$ is.
(a) 100° (b) 130°
(c) 40° (d) 50°
63. A, B and C jointly start a business A puts in Rs 15,000 for 8 months B puts in Rs 12,000 for 9 months and C puts in Rs 8,000, for the whole year. In the end of the year there is a profit of Rs 10,800. The difference between A's share and C share in the profit will be :
(a) Rs 800 (b) Rs 600
(c) Rs 1200 (d) Rs 1,800
64. If $\theta = 60^\circ$, then $\frac{1}{2}\sqrt{1+\sin\theta} + \frac{1}{2}\sqrt{1-\sin\theta}$ is equal to
(a) $\cot\frac{\theta}{2}$ (b) $\sec\frac{\theta}{2}$
(c) $\sin\frac{\theta}{2}$ (d) $\cos\frac{\theta}{2}$
65. In a right angled ΔABC , $\angle ABC = 90^\circ$, $AB = 3$, $BC = 4$, $CA = 5$; BN is perpendicular to AC, AN : NC is
(a) 3 : 4 (b) 9 : 16
(c) 3 : 16 (d) 1 : 4
66. Find the value of $3\cos 80^\circ \operatorname{cosec} 10^\circ + 2\cos 59^\circ \operatorname{cosec} 31^\circ$
(a) 1 (b) 3
(c) 2 (d) 5
67. Find the value of $\left[\frac{\cos^2 A(\sin A + \cos A)}{\operatorname{cosec}^2 A(\sin A - \cos A)} + \frac{\sin^2 A(\sin A - \cos A)}{\sec^2 A(\sin A + \cos A)} \right] (\sec^2 A - \operatorname{cosec}^2 A)$
(a) 1 (b) 3
(c) 2 (d) 4
68. If $7\sin^2\theta + 3\cos^2\theta = 4$, then find the value of $\cos\theta$ ($0^\circ \leq \theta \leq 90^\circ$) ?
(a) $\frac{\sqrt{6}}{2}$ (b) $\frac{\sqrt{3}}{2}$
(c) 1 (d) $\frac{\sqrt{5}}{2}$
69. Find the minimum value of $4\tan^2\theta + 9\cot^2\theta$?
(a) 13 (b) 12
(c) 1 (d) 6
70. If $\tan\theta = \sqrt{2}$, then find the value of θ -
(a) less than $\frac{\pi}{4}$ (b) equal to $\frac{\pi}{4}$
(c) between $\frac{\pi}{4}$ and $\frac{\pi}{3}$ (d) more than $\frac{\pi}{3}$
71. The volume of a cylinder and a cone are in the ratio 3 : 1. Find their diameters and then compare them when their heights are equal.
(a) Diameter of cylinder = 2 times of diameter of cone
(b) Diameter of cylinder = Diameter of cone
(c) Diameter of cylinder > Diameter of cone
(d) Diameter of cylinder < Diameter of cone
72. The base of a right prism is a triangle whose perimeter is 28 cm and the in-radius of the triangle is 4 cm. If the volume of the prism is 366 cc, then its height is
(a) 6 cm (b) 8 cm
(c) 4 cm (d) None of these
73. $\frac{1}{1.3} + \frac{1}{3.5} + \frac{1}{5.7} + \frac{1}{7.9} + \dots + \frac{1}{21.23} = ?$
(a) $\frac{11}{23}$ (b) $\frac{22}{23}$
(c) $\frac{11}{21}$ (d) $\frac{7}{23}$
74. If each among 63, 87 and 123 is divided by a number the remainders are same in every condition. What is the maximum possible value of the divisor?
(a) 12 (b) 24
(c) 18 (d) None of these
75. Find the smallest multiple of 7 which when divided by 2, 3, 4, 5 and 6 respectively leaves the remainders 1, 2, 3, 4 and 5.
(a) 63 (b) 119
(c) 126 (d) 239
76. 25% of the employees of department A and 16% of the employees of department B took part in a function. Participants from department A were 500 in number but 252 employees of department B did not take part in the function. Find the total no. of employees in A and B.
(a) 2200 (b) 2300
(c) 2000 (d) 2500
77. A sailor goes 2 km upstream in one hour and 1 km downstream in 10 minutes. In how much time will he go 5 km in still water?

- (a) 60 min (b) 50 min
(c) 75 min (d) 90 min
78. The average temperature of Monday to Wednesday is 37°C and that of Tuesday to Thursday is 34°C . If the temperature on Thursday is $\frac{4}{5}$ on that of Monday then what will be the temperature on Thursday?
(a) 45° (b) 36°
(c) 50° (d) 40°
79. A person was asked to state his age. His reply was — "Take my age 3 years hence, multiply it by 3, subtract the triple of my age 3 years ago and you will know how old I am." What is the present age of the person (in years)?
(a) 24 (b) 20
(c) 32 (d) 18
80. The sell of a business man in 5 consecutive month was Rs. 6,435, Rs. 6,927, Rs. 7,230, Rs. 6,855 and Rs. 6,562 respectively. How much should he sell in 6th month in order to make the average sell Rs. 6,500?
(a) 4991 (b) 5991
(c) 6991 (d) 6001
81. The price of a coin depends upon the product of its thickness and the square of the diameter. The ratio of thickness of two coins is 8 : 9. If the value of the second coin is double of the first coin then what will be the ratio of their diameters?
(a) 2 : 3 (b) 3 : 4
(c) 4 : 5 (d) 32 : 51
82. The ratio between a two digit number and the sum of its digits is 4 : 1. If the digit at unit place is three more than digit at tenth places then the number is
(a) Between 30 to 40 (b) Between 40 to 50
(c) Between 50 to 60 (d) Between 80 to 90
83. A shopkeeper gets 10% profit after having a discount of 10% on a cycle of marked price Rs. 1100. The cost price of the cycle is
(a) Rs. 1100 (b) Rs. 900
(c) Rs. 1089 (d) Rs. 891
84. A trader sells his goods at 10% discount on the marked price. How much should he keep the marked price of item to get a profit of 10%, when cost price is Rs. 1800?
(a) Rs. 2275 (b) Rs. 2250
(c) Rs. 2175 (d) Rs. 2200
85. What is the difference between the discount of 40% and two successive discounts of 36% and 4% in a bill of Rs. 100,000?
(a) Nothing (b) Rs. 1440
(c) 2500 (d) Rs. 4000
86. In how many years simple interest obtained on Rs. 8000 at 3% per annum will be equal simple interest on Rs. 6000 at 4% for 5 years?
(a) 4 years (b) 5 years
(c) 6 years (d) 8 years
87. A certain sum of money at simple interest becomes $\frac{11}{9}$ folds in three years. What is the rate percent per annum?
(a) 10% (b) $7\frac{11}{27}\%$

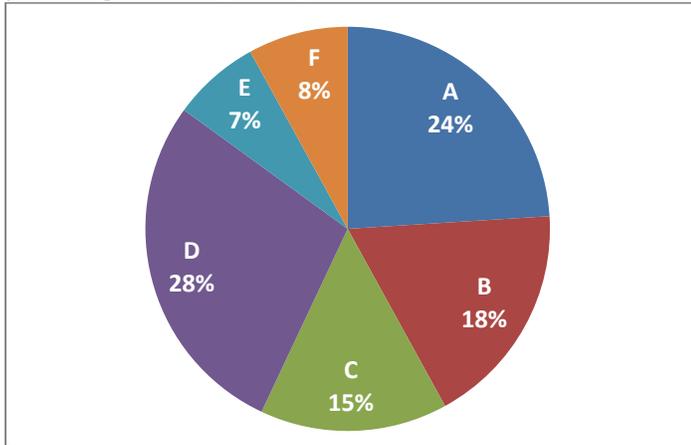
- (c) $11\frac{1}{5}\%$ (d) 15%
88. The entrance ticket of an exhibition was Rs. 5. Later it was decreased by 20% and thus the sale amount is increased by 44%. What was the percentage increase in the number of visitors?
(a) 64% (b) 24%
(c) 80% (d) 20%
89. The percentage of water in fresh fruit is 68% and in dry fruit is 20%. How much dried fruit can be extracted from 100 kg of fresh fruit?
(a) 32 kg (b) 40 kg
(c) 52 kg (d) 80 kg
90. In a solution of salt and water there is 12% salt by weight. When 25 kg of water evaporates, the concentration of salt becomes 22%. What is the initial amount of the solution?
(a) 55 kg (b) 47 kg
(c) 37 kg (d) 34 kg

Directions (91-95): Study the following graph carefully and answer the questions given below it.



91. In which year is the per cent increase in the profit from that in the previous year the highest?
(a) 1998 (b) 2000
(c) 2002 (d) 2004
92. If the expenditure in the year 2003 was Rs. 60 crores, how much was the income in crore rupees?
(a) 110 (b) 115
(c) 120 (d) 90
93. If the income in the year 1999 was Rs. 60 crores and the expenditure in that year equals the expenditure in the year 2001, what was the income of the company in crore rupees in the year 2001?
(a) 75 (b) 60
(c) 55 (d) 65
94. What is the approximate % increase in the profit in the year 2005 from that in the previous year?
(a) 12 (b) 4
(c) 7 (d) 15
95. What is the approximate per cent profit in the year 2002, if the income in that year was Rs. 120 crores?
(a) 51 (b) 47
(c) 63 (d) 71

Directions (96-100): Following pie-chart shows the percentage distribution of total items (I_1 and I_2) produced by six companies (A, B, C, D, E and F) and the table shows the ratio of I_1 to I_2 and percentage sale of I_1 , and I_2 .



Company	I_1	I_2	% Sold I_1	% Sold I_2
A	5	3	65	62
B	5	4	56	78
C	2	3	72	66
D	3	4	75	60
E	4	3	64	55
F	3	2	50	48
Total item($I_1 + I_2$) = 16 lakh				

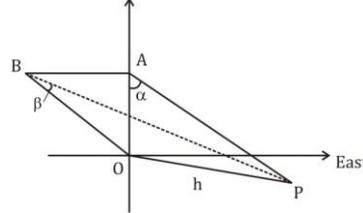
96. What is the difference between the total items produced by Company A and B together and the total items produced by Company D?
 (a) 3.84 lakh (b) 3.06 lakh
 (c) 2.96 lakh (d) 2.24 lakh
97. What is the difference between the total number of I_1 items and the total number of I_2 items produced by Company F?
 (a) 24800 (b) 25600
 (c) 26300 (d) 27500
98. What is the average number of I_1 items sold by all six companies together?
 (a) 89480 (b) 89580
 (c) 89680 (d) 89780
99. What is the difference between the number of I_1 items sold and the number of I_2 items sold by Company E?
 (a) 14560 (b) 14480
 (c) 14610 (d) 14340
100. The number of I_1 items sold by Company A is what percentage of the number of I_1 items sold by Company F?
 (a) 40.625% (b) 120%
 (c) 406.25 (d) 296.5%

Solutions:

1. (b); 1st day = $\frac{3}{8}$
 Remaining = $\frac{5}{8}$
 2nd day = $\frac{4}{5} \times \frac{5}{8} = \frac{1}{2}$

Remaining (unread) = $\frac{5}{8} - \frac{1}{2} = \frac{5-4}{8} = \frac{1}{8}$
 $\frac{1}{8}$ of X = 45 $\Rightarrow X = 45 \times 8 = 360$

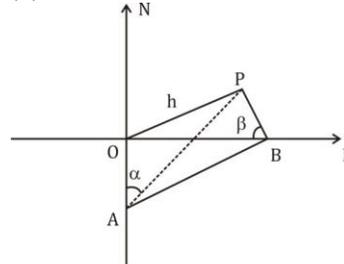
2. (a) ΔOAP ,
 $\tan \alpha = \frac{h}{OA}$ (i)



ΔOBP ,
 $\tan \beta = \frac{h}{OB}$ (ii)

ΔOAB ,
 $OB^2 = OA^2 + AB^2$
 $AB^2 = h^2 \cot^2 \beta - h^2 \cot^2 \alpha$
 $AB^2 = h^2 \cdot [\text{cosec}^2 \beta - \text{cosec}^2 \alpha]$
 $AB^2 = h^2 \cdot \left[\frac{\sin^2 \alpha - \sin^2 \beta}{\sin^2 \alpha \sin^2 \beta} \right]$
 $h = \frac{AB \sin \alpha \sin \beta}{\sqrt{\sin^2 \alpha - \sin^2 \beta}}$

3. (a) In ΔOAP



$\tan \alpha = \frac{h}{OA}$ (i)

In ΔOBP
 $\tan \beta = \frac{h}{OB}$ (ii)

$AB^2 = OA^2 + OB^2$
 $d^2 = h^2 \cot^2 \alpha + h^2 \cot^2 \beta$
 $h = \frac{d}{\sqrt{\cot^2 \alpha + \cot^2 \beta}}$

4. (b); total₁ = $10 \times (X+1)$
 total₂ = $11X - 8$
 $10(X + 1) = 11X - 8$
 $X = 18$

Students = 190

5. (a); $(2W + 5W) \times 12 = (5M + 2W) \times 9 = \text{work}$
 $21W = 42W$
 $M = 2W$ (i)
 Work = $(2M + 5W) \times 12 = 9 \times 12W$
 Work done by 3 women in days = $\frac{9 \times 12W}{3W} = 36$

6. (a); To meet at centre, they should interchange at half the time that they take together to dig a trench.
 Time taken by Arun & Twinkle together = $\frac{1}{\frac{1}{10} + \frac{1}{20}} = \frac{20}{3}$
 At half its time they should interchange = $\frac{10}{3}$ hrs.
 Dig dug by Arun in 10 hrs = 100 m

Dig dug by Arun in $\frac{10}{3}$ hrs = 33.33 m
 ⇒ they should interchange at 33.33 m from Arun.

7. (c); Total of 6 sons = 48 years
 Total of family = 176 years
 ∴ Total age of parents = 128
 ⇒ Father = 68
 Mother = 60
8. (a); Let numbers = a & b
 $15a \times 15b = 6300$
 $ab = 28$
 ⇒ Possible pairs would be 2
9. (b); $\Rightarrow 2\text{Cosec}^2 23^\circ \cdot \text{Cot}^2 67^\circ - \text{Sin}^2 23^\circ - \text{Sin}^2 67^\circ - \text{Cot}^2 67^\circ$
 $= 2\text{Cosec}^2 23^\circ \cdot \tan^2 23^\circ - (\text{Sin}^2 23^\circ + \text{Cos}^2 23^\circ) - \text{Cot}^2 67^\circ$
 $= \frac{2}{\text{Cos}^2 23^\circ} - 1 - \text{Cot}^2 67^\circ = 2\text{Sec}^2 23^\circ - 1 - \tan^2 23^\circ$
 $= 2\text{Sec}^2 23^\circ - \text{Sec}^2 23^\circ = \text{Sec}^2 23^\circ$

10. (b); $\tan \theta = \frac{\text{Sin}\alpha - \text{Cos}\alpha}{\text{Sin}\alpha + \text{Cos}\alpha}$
 Squaring both sides and adding 1.

$$1 + \tan^2 \theta = 1 + \frac{(\text{Sin}\alpha - \text{Cos}\alpha)^2}{(\text{Sin}\alpha + \text{Cos}\alpha)^2}$$

$$\text{Sec}^2 \theta = \frac{2(\text{Sin}^2 \alpha + \text{Cos}^2 \alpha)}{(\text{Sin}\alpha + \text{Cos}\alpha)^2}$$

$$= \frac{1}{\text{Cos}^2 \theta} = \frac{2}{(\text{Sin}\alpha + \text{Cos}\alpha)^2}$$

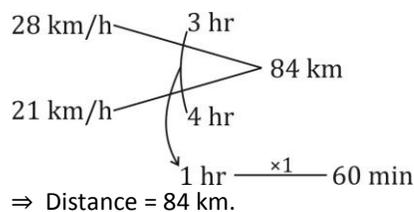
$$\Rightarrow \frac{1}{\text{Cos}\theta} = \frac{\pm\sqrt{2}}{(\text{Sin}\alpha + \text{Cos}\alpha)}$$

$$\Rightarrow \text{Sin}\alpha + \text{Cos}\alpha = \pm\sqrt{2}\text{Cos}\theta$$

11. (a); $A_1 = \pi r^2 h$
 $= 25\pi \times 14 = 350\pi$
 $A_2 = 100\pi - 25\pi = 75\pi$
 $\Rightarrow 75\pi \times h = 350\pi$
 $\Rightarrow h = \frac{14}{3} = 4\frac{2}{3}$ m
12. (b); Total S. area of a solid hemisphere = $108\pi \text{cm}^2$
 $\Rightarrow 3\pi r^2 = 108\pi$
 $r^2 = 36$
 $r = 6$ cm.
 Volume of hemisphere = $\frac{2}{3}\pi r^3 = \frac{2}{3}\pi \times 216 = 2 \times 72\pi$
 $= 144\pi \text{cm}^3$

13. (b);
-
- ⇒ A : B : C
 4 : 3 : 1 — 8 $\xrightarrow{\times 400}$ 3200
 ↓
 400Rs.

14. (d); Speed = $\frac{2 \times 3 \times 4}{1} = 24$ km/hr
 Condition
 ↓



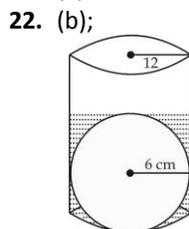
- ⇒ Distance = 84 km.
15. (c); 120 km distance covered in 2 hrs.
 $\Rightarrow S_1 = \frac{120}{2} = 60$ km/h.
 Remaining 180 km has to be covered in 2 hrs.
 $\Rightarrow S_2 = \frac{180}{2} = 90$ km/h.
 ⇒ Increase in speed = $90 - 60 = 30$ km/h.

16. (a); Let B alone can complete a work in t days then,
 $\frac{15}{60} + \frac{30}{t} = 1$
 $\Rightarrow t = 40$
 Req. time = $\frac{40 \times 60}{40 + 60} = 24$ days

17. (d);
-
- ⇒ efficiency = $7 - 6 = 1$
 So, time = $7 \times 2 = 14$ hours

18. (a); $(150 + I_2) = (50 + 58) \times \frac{5}{18} \times 7$
 $I_2 = 60$ m
19. (a); $\frac{30}{x-y} + \frac{44}{x+y} = 10$(i)
 $\frac{40}{x-y} + \frac{55}{x+y} = 13$(ii)
 after solving eqn. $x = 8, y = 3$
20. (b); Let CP = Rs. 100
 Marked price = Rs. 140
 Now, $\frac{100}{7}\%$ of 140 = Rs. 20
 And 10% of $(140 - 20) = 12$
 \therefore SP = $140 - (20 + 12) =$ Rs. 108
 \therefore Percentage profit = $\frac{108 - 100}{100} \times 100 = 8\%$

21. (a); 0



Let the increase in height = 4 cm

$$\Rightarrow \pi R^2 h = \frac{4}{3} \pi r^3$$

$$(12)^2 \times h = \frac{4}{3} \times 6^3$$

$$h = \frac{4}{3} \times \frac{216}{144} = 2$$
 cm

23. (a); Let the required increase = x cm
 $\Rightarrow \pi(10 + x)^2 \times 4 = \pi \times 10^2 \times (4 + x)$

$$100 + x^2 + 20x = 25(4 + x)$$

$$x^2 + 20x + 100 = 100 + 25x$$

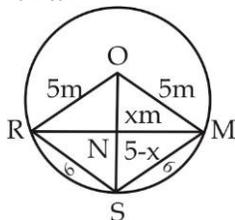
$$x^2 - 5x = 0$$

$$x - 5 = 0$$

$$x = 5$$

24. (c); Let the radius of base of second cylinder = R
 $\Rightarrow 2(\pi r^2 h) = \pi R^2 h$
 $\Rightarrow 2r^2 = R^2$
 $\Rightarrow R = r\sqrt{2}$

25. (a); Let R, S, M are three girls Deepshikha, Twinkle, and Kavita.

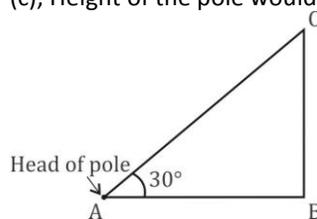


ON = x
 SN = (5 - x)m
 \therefore In $\triangle ONR$
 $x^2 + RN^2 = 25$... (i)
 In $\triangle SNR$
 $(5 - x)^2 + RN^2 = 36$... (ii)
 From (i) & (ii)
 $x = 1.4$
 $\Rightarrow RN = 4.8$
 $\Rightarrow RM = 2 \times 4.8 = 9.6$ m.

26. (d); $\therefore \angle CED = 50^\circ$
 $\angle ECD = 20^\circ$
 $\Rightarrow \angle CDE = 110^\circ$
 $\therefore \angle CDE = \angle BAC = 110^\circ$
27. (b); Area of polygon ABCDE = area of $\triangle AFB$ + ar. of trap. FBCH + ar. of $\triangle CHD$ + ar. $\triangle ADE$
 $= 3 + 7.5 + 3 + 10$
 $= 23.5$ cm^2
28. (c); Req. area = Area of base + area of back + (2 \times area of a side)
 $= 2400 + 3200 + (2 \times 1200)$
 $= 8000$ cm^2
29. (c); $14x - 8x = 1200$
 $6x = 1200 \Rightarrow x = 200$
 12% of 200 = $\frac{12 \times 200}{100} = 24$
30. (a); $P = \frac{3375 \times 100}{6 \times 1 + 6.5 \times 1 + 7 \times 1 + 7.5 \times 1}$
 $= \frac{3375 \times 100}{27} = 12500$
31. (d) Let the age at her marriage time = x
 Present age = x + 9 yrs.
 Again from question,
 Present age = $\frac{4x}{3}$ years.
 $\therefore x + 9 = \frac{4x}{3} \Rightarrow x = 27$ years.
 Present age of Michelle = 36 years.
 Age of daughter = $\frac{1}{6} \times 36 = 6$ years.

Age two years ago = 4 years

32. (a) Total investment % = 8 + 17 + 3 = 28%
 $\therefore 8\% = 2880$
 $\Rightarrow 28\% = \frac{2880}{8} \times 28 = \text{Rs. } 10080$
33. (a) Suppose the annual installment be Rs. x
 According to question.
 $(x + \frac{x \times 4 \times 3}{100}) + (x + \frac{x \times 4 \times 2}{100}) + (x + \frac{x \times 4 \times 1}{100} + x) = 848$
 or, $\frac{424x}{100} = 848$
 $x = 200$
34. (d) Decrease in total weight = 55 - 45 = 10 kg.
 Decrease in average weight = $\frac{10}{45} = \frac{2}{9} = 0.22$
 \therefore Real average weight = 67 + 0.22 = 67.22 kg.
35. (b) = $13 \frac{3}{4}$
36. (b); Area of required sector = $\frac{\text{length of arc}}{\text{Circumference}} \times \text{area of circle}$
 $= \frac{3.5}{2 \times \frac{22}{7} \times 5} \times \frac{22}{7} \times 5 \times 5$ cm^2
 $= 8.75$ cm^2
37. (c); Height of the pole would be (BC + CA).



$\Rightarrow \tan 30^\circ = \frac{BC}{8\sqrt{3}}$
 $\Rightarrow BC = 8$ m
 $\Rightarrow CA = \sqrt{AB^2 + BC^2} = \sqrt{(8\sqrt{3})^2 + 8^2}$
 $= \sqrt{192 + 64} = \sqrt{256}$
 $= 16$ m
 So height = 8 + 16 = 24 m

38. (c); $2x + y = 6$ (i)
 $x = 2$ (ii)
 Put $x = 2$ in eqn. (i)
 We get, $y = 2$
 \Rightarrow Required meeting point is (2, 2)

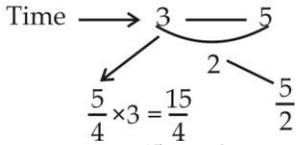
39. (c); Perimeter of plot = $2(\ell + b) = 2(35 + 16) = 102$ m
 Total cost of fencing = $7 \times 102 = \text{Rs. } 714$

40. (c); Let the length, breadth and height be ℓ, b, h then,
 $h = 0.4(\ell + b)$
 \Rightarrow Area of four walls = $2(\ell + b) \times h = 0.8(\ell + b)^2$
 Req. area of paper pasting = $0.8(\ell + b)^2 - 15 = \text{area of wall}$
 $\frac{260}{2} = 130 = \text{length of paper}$
 $\Rightarrow 130 = \frac{0.8(\ell + b)^2 - 15}{0.5}$
 $\Rightarrow (\ell + b) = 10 \Rightarrow h = 0.4 \times 10 = 4$

41. (b); Let r = radius of sphere
 a = each side of cube
 A.T.Q.,
 $4\pi r^2 = 6a^2$

57. (c); I : II
 Efficiency : 3 : 1 → 4
 Total work = 36 × 4 ⇒ slower pipe will fill in = $\frac{36 \times 4}{1} = 144$ min

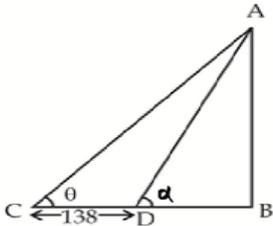
58. (c);
 Speed → 5 — 3



usual time = $\frac{15}{4} = 3\frac{3}{4}$ hrs.

59. (b); $x = \frac{\cos\theta}{1-\sin\theta} = \frac{\cos\theta(1+\sin\theta)}{1-\sin^2\theta} = \frac{1+\sin\theta}{\cos\theta}$
 $\Rightarrow \frac{\cos\theta}{1+\sin\theta} = \frac{1}{x}$

60. (a);



1st Case → $\tan\theta = \frac{1}{5} = \frac{AB}{BC}$

IInd Case → $\sec\alpha = \frac{AD}{BD} = \frac{\sqrt{193}}{12}$

In ΔABD

Hypo = $\sqrt{193}$

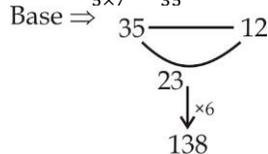
Base = 12

Then perpendicular = 7

In case I perpendicular is 1

So making equal

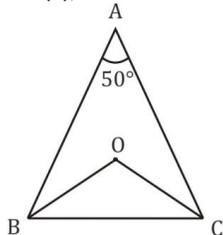
$\tan\theta = \frac{1 \times 7}{5 \times 7} = \frac{7}{35}$



AB = 42 m

61. (b); $\pi(r_1^2 + r_2^2) = 130\pi$
 $r_1^2 + r_2^2 = 130$ (i)
 $r_1 + r_2 = 14$ (ii)
 from (i) & (ii)
 $r_1 = 11$ cm & $r_2 = 3$ cm

62. (c); $\angle BOC = 100$



$\angle OBC + \angle OCB = 80$

$\Rightarrow \angle OCB = \angle OBC = 40^\circ$

63. (a);

	A	B	C
Money	15	12	8
Time	8	9	12
	120	108	96

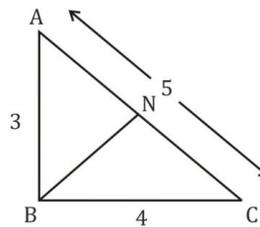
$$\Rightarrow 10 : 9 : 8 \rightarrow 27 \xrightarrow{\times 400} 10,800$$

$$\downarrow$$

$$2 \times 400 = 800$$

64. (d); $\Rightarrow \frac{1}{2}\sqrt{1+\sin\theta} + \frac{1}{2}\sqrt{1-\sin\theta}$
 $= \frac{1}{2}[\sqrt{1+\sin\theta} + \sqrt{1-\sin\theta}] = \frac{1}{2}[\sqrt{1+\sin 60^\circ} + \sqrt{1-\sin 60^\circ}]$
 $= \frac{1}{2}\left[\sqrt{1+\frac{\sqrt{3}}{2}} + \sqrt{1-\frac{\sqrt{3}}{2}}\right] = \frac{1}{2}\left[\frac{\sqrt{2+\sqrt{3}}}{2} + \frac{\sqrt{2-\sqrt{3}}}{2}\right]$
 $= \frac{1}{2}\left[\frac{\sqrt{3}+1}{2} + \frac{\sqrt{3}-1}{2}\right] = \frac{1}{4}[\sqrt{3}+1+\sqrt{3}-1]$
 $= \frac{2\sqrt{3}}{4} = \frac{\sqrt{3}}{2} = \cos 30^\circ$
 $= \cos \frac{\theta}{2}$

65. (b); $\Delta ABC \sim \Delta ANB$



$$\Rightarrow \frac{AB}{AN} = \frac{AC}{AB}$$

$$\Rightarrow AB^2 = AC \times AN$$

$$\frac{9}{5} = AN$$

$$\Rightarrow NC = \frac{16}{5}$$

$$\Rightarrow NC = \frac{16}{5}$$

$$\Rightarrow AN : NC = 9 : 16$$

66. (d) $3 \cos 80^\circ \cdot \operatorname{cosec} 10^\circ + 2 \cos 59^\circ \cdot \operatorname{cosec} 31^\circ$
 $\Rightarrow 3 + 2 = 5$

67. (c) $\left[\frac{\cos^2 A (\sin A + \cos A)}{\operatorname{cosec}^2 A (\sin A - \cos A)} + \frac{\sin^2 A (\sin A - \cos A)}{\sec^2 A (\sin A + \cos A)} \right] (\sec^2 A - \operatorname{cosec}^2 A)$

$$\Rightarrow \sin^2 A \cdot \cos^2 A \left[\frac{(\sin A + \cos A)^2 + (\sin A - \cos A)^2}{\sin^2 A - \cos^2 A} \right] \frac{\sin^2 A - \cos^2 A}{\sin^2 A \cdot \cos^2 A}$$

$$\Rightarrow 2$$

68. (b) $(7 \sin^2 \theta + 3 \cos^2 \theta = 4)$
 $\Rightarrow 7 \sin^2 \theta + 3 - 3 \sin^2 \theta = 4$
 $\Rightarrow 4 \sin^2 \theta = 1 \Rightarrow \sin \theta = \frac{1}{2} = \sin 30^\circ$
 $\Rightarrow \theta = 30^\circ$
 $\Rightarrow \cos \theta = \cos 30^\circ = \frac{\sqrt{3}}{2}$

69. (b) min value of $4 \tan^2 \theta + 9 \cot^2 \theta$
 $\Rightarrow 2\sqrt{ab} = 2\sqrt{4 \times 9} = 12$

70. (c); $\tan \theta = \sqrt{2}$

$$\Rightarrow \frac{\pi}{4} < \theta < \frac{\pi}{3}$$

71. (b); $\frac{3}{1} = \frac{3r_1^2}{r_2^2} \Rightarrow r_1 = r_2$

Hence, their diameter are equal.

72. (d); Area of the base = $\frac{1}{2} \times r \times a + \frac{1}{2} \times r \times b + \frac{1}{2} \times r \times c$

$$= \frac{1}{2} \times r (a + b + c) = r \times s$$

$$= 4 \times 14 = 96 \text{ cm}^2$$

(r = radius & s = semi perimeter)

Volume of prism = area of base \times height

$$366 = 96 \times h$$

$$h = 3.8 \text{ cm (approx)}$$

73. (a); $\frac{1}{1.3} = \frac{1}{2} \left(\frac{3-1}{1.3} \right) = \frac{1}{2} \left(1 - \frac{1}{3} \right)$

So, Req. Sum = $\frac{1}{2} \left(1 - \frac{1}{3} + \frac{1}{3} - \frac{1}{5} + \dots + \frac{1}{23} \right) =$

$$\frac{1}{2} \left(1 - \frac{1}{23} \right) = \frac{11}{23}$$

74. (a); The required no. will be G.C.D. of 87 - 63, 123 - 63 and 123 - 87 means 24, 60 and 36.

75. (b);

76. (b) Total employees of A = $500 \times \frac{100}{25} = 2000$

Total employees of B = $252 \times \frac{100}{(100-16)} = 300$

\therefore Total strength of A and B = 2300

77. (c); The speed downstream = 6 km/hr.

Speed in still water = $(6+2)/2 = 4$ km/hr.

So, time taken to go 5 km in still water = $5/4 \times 60$ min = 75 min.

78. (b); $M + T + W = 37 \times 3 = 111$

$$T + W + TH = 34 \times 3 = 102$$

After subtracting $M - Th = 9$

$$M - \frac{4}{5}M = 9, M = 45^\circ$$

$$Th = 45 \times \frac{4}{5} = 36^\circ$$

79. (d); $3(x + 3) - 3(x - 3) \Rightarrow$ Present age = 18 year.

80. (a);

81. (b); Price of coins proportional to (thickness \times diameter²)

$$P = k.t.d^2$$

$$\frac{1}{2} = \frac{8}{9} \cdot \frac{(d_1/d_2)^2}{2} = d_1/d_2 = 3/4$$

82. (a); Let the No. is $10x + (x + 3)$, then $\frac{10x+x+3}{x+(x+3)} = \frac{4}{1}$

$$x = 3$$

So, the no. is $10 \times 3 + 6 = 36$

83. (b); ratio is CP : SP : MRP $\Rightarrow 90 : 99 : 110$

So, CP = 900

84. (d);

85. (b); $36 \times 4 = 144$ so, multiple of 144 is option b.

86. (b); $\frac{8000 \times 3 \times t}{100} = \frac{6000 \times 5 \times 4}{100} \Rightarrow t = 5$ year.

87. (b);

88. (c); New amount = 144% of $5x = 7.2x$

$$\text{No. of viewers} = \frac{7.2x}{80\% \text{ of } 5} = 1.8x$$

$$\text{Req. Increase} = \frac{1.8x - x}{x} \times 100\% = 80\%$$

89. (b) 100 kg fruit, 68 kg water and 32 kg material

$$(100 - 20)\% \text{ of } x = 32 \text{ kg}$$

$$x = 40 \text{ kg}$$

90. (a); The amount of salt fixed.

$$12\% \text{ of } x = 22\% \text{ of } (x - 25)$$

$$x = 55 \text{ kg}$$

91. (b); % increase in profit in 2000 from previous year =

$$\frac{50-25}{25} \times 100 = 100\%$$

92. (b); (60+55) crore = 115 crore

93. (a); \therefore Expense in 1999 = (60 - 25) crore = 35 crore

\therefore Income in 2001 Rs. = (35 + 40) = 75 crore

94. (c); Req. % growth = $\frac{75-70}{70} \times 100\% = 7\%$ (approx)

95. (d); $\frac{50}{120-50} \times 100\% = 71\%$ (approx)

96. (d); $\frac{[(24+18)-28]}{100} \times 16 = 2.24$ lakh

97. (b); $\frac{8}{100} \times 16 \times \frac{1}{5} \times 100,000 = 25600$

98. (c); I_1 sold by A = $16 \times \frac{24}{100} \times \frac{5}{8} \times \frac{65}{100} = 1.56$ lakh

Similarly

$$\text{Total } I_1 = 1.56 + 0.896 + 0.6912 + 1.44 + 0.4096 + 0.384$$

$$= 5.3808 \text{ lakh}$$

$$\text{Arrange} = \frac{5.3808}{6} = 89680$$

99. (a) $I_1 = \frac{4}{7} \times \frac{7}{100} \times 16,00,000$

$$= 64,000$$

$$I_2 = \frac{3}{7} \times \frac{7}{100} \times 16,00,000 = 48,000$$

$$I_1 \text{ Sold} = 64,000 \times \frac{64}{100} = 40960$$

$$I_2 \text{ Sold} = 48,000 \times \frac{55}{100} = 26400$$

$$\text{Difference} = I_1 - I_2 = 14560$$

100.(c); I_1 sold by A = 156000

$$I_1 \text{ Sold by F} = 38400$$

$$\therefore \text{Required \%} = \frac{156000}{38400} \times 100 = 406.25$$



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IBPS CLERK 2016 – PRELIMS : PRACTICE SET

REASONING ABILITY

Directions (1-5): Study the given information carefully to answer the given questions.

Ten people are sitting in two parallel rows containing five people each, in such a way that there is an equal distance between adjacent persons. In row 1-A, B, C, D and E are seated (not necessarily in the same order) and all of them are facing north. In row 2-P, Q, R, S and T are seated (not necessarily in the same order) and all of them are facing south. Therefore, in the given seating arrangement, each member seated in a row facing another member of the other row.

C sits exactly in the middle of the row. The person facing C sits to the immediate left of R. T is an immediate neighbour of R. D sits second to the left of B. B faces one of the immediate neighbours of Q. S is not an immediate neighbour of P. S does not sit at an extreme end of the line. E does not face P.

- Who amongst the following is facing Q?
(a) E (b) A (c) C
(d) B (e) D
- What is the position of S with respect to T?
(a) Third to the right (b) Second to the right
(c) Second to the left (d) Immediate right
(e) Immediate left
- Which of the following statements is true regarding E?
(a) Only two persons sit between E and B
(b) E faces one of the immediate neighbours of R
(c) D is an immediate neighbour of E
(d) None of the given statements is true
(e) E sits at an extreme end of the line
- Who amongst the following is facing A?
(a) Q (b) T (c) P
(d) R (e) S
- Four of the given five are alike in a certain way based on the given arrangement and hence form a group. Which of them does not belong to that group?
(a) ED (b) PR (c) RQ
(d) AB (e) SP

Directions (6-10): In these questions, relationship between different elements is shown in the statements. The statement is/are followed by two conclusions. Study the conclusions based on the given statements and Give answer-

- If only conclusion I is true.
- If only conclusion II is true.
- If neither conclusion I nor conclusion II is true.
- If either conclusion I or II is true.
- If both conclusions I and II are true.

- Statements:** $A < B \leq C = D$, $K \geq J > C$
Conclusions: I. $C < K$ II. $B \leq D$
- Statements:** $A < B \leq C = D$, $K \geq J > C$
Conclusions: I. $A \geq J$ II. $K > B$

- Statement:** $B \geq L > A \geq N < K$
Conclusions: I. $B > N$ II. $L < K$
- Statement:** $B \geq L > A \geq N < K$
Conclusions: I. $L > N$ II. $L = N$
- Statement:** $A > B > C \leq D = E \leq F$
Conclusions: I. $C < F$ II. $C = F$

Directions (11-15): Study the following information carefully and answer the questions given below:

G, H, I, J, K, L, M and N are sitting around a circular table at equal distances between each other, but not necessarily in the same order. Some of the people are facing the centre while some others are facing outward.

M sits second to the right of J. J faces the centre. N sits second to the left of M. N is an immediate neighbour of both I and K. L sits second to the left of K. G sits second to the left of I. N faces the same direction as K. H sits third to the right of G. G sits third to the right of H. L faces the same direction as N. I sits second to the right of K.

- Who sits exactly between M and N when counted from the left of M?
(a) G (b) I (c) K
(d) H (e) J
- How many people in the given arrangement face the centre?
(a) One (b) Three (c) Five
(d) Four (e) Can't be determined
- Who sits second to the right of H?
(a) L (b) M (c) J
(d) N (e) Other than the given options
- Four of the following five are alike in a certain way based on the given seating arrangement and so form a group. Which is the one that does that belong to that group?
(a) N (b) I (c) M
(d) G (e) K
- What is G's position with respect to N?
(a) Second to the left (b) Third to the right
(c) Third to the left (d) Fifth to the right
(e) Fourth to the right

Directions (16 -20): Study the given information and answer the following questions.

In a certain code language,
'register your self now' is written as '56 83 71 37'
'what is your result' is written as '76 75 38 83'
'my self is rohit' is written as '37 86 16 76'
'my result was good' is written as '75 58 16 63'
(All the codes are two letter codes)

- What does '86' stand for?
(a) my (b) rohit (c) self
(d) is (e) Cannot be determined

17. What is the code for 'new result'?
- (a) 38 76 (b) 75 56 (c) 71 38
(d) 51 75 (e) Cannot be determined
18. Which of the following could be a code for 'it is my result'?
- (a) 75 36 86 76 (b) 75 16 38 76 (c) 76 71 16 75
(d) 16 76 57 75 (e) 38 76 56 16
19. What is the code for 'What'?
- (a) 38 (b) 76 (c) 75
(d) 83 (e) Cannot be determined
20. For how many words, codes can be determined?
- (a) five (b) six (c) seven
(d) eight (e) None of these
- Directions (21-25):** Study the given information carefully and answer the given questions:
Seven Exams – U, V, W, X, Y, Z and F are to be held on seven consecutive days (starting on Sunday and ending on Saturday) not necessarily in the same order. Only one exam can be held on one day. Only two exams will be held after play F. Only two exams will be held between exam Z and exam F. Only three exams will be held between exam V and exam Y. Exam V will not be held on Saturday. Exam U will be held before exam X and exam W. Exam W will be held after exam X (not necessarily immediately after).
21. Exam X will be held on which day?
- (a) Monday (b) Tuesday (c) Thursday
(d) Wednesday (e) Saturday
22. Which exam will be held immediately after exam W?
- (a) Exam Y (b) Exam Z (c) Exam V
(d) Exam F (e) None of these
23. Which exam will be held on Sunday?
- (a) Exam Z (b) Exam V (c) Exam Y
(d) Exam X (e) Exam U
24. If all seven exams are held in the alphabetical order of their names starting on Sunday and ending on Saturday, the positions of how many will remain unchanged as compared to the original schedule?
- (a) Three (b) More than three
(c) One (d) None (e) Two
25. If exam Z is related to Sunday in a certain way based on the given schedule. Similarly, If exam F is related to Wednesday. In the same way, exam V is related to which of the following days?
- (a) Wednesday (b) Friday (c) Monday
(d) Saturday (e) Sunday
- Direction (26-28):** Read the following information carefully and answer the following questions.
'A + B' means 'A is sister of B'
'A × B' means 'A is mother of B'
'A – B' means 'A is brother of B'
'A ÷ B' means 'A is father of B'
26. Which of the following represents 'G is a cousin of H'?
- (a) $G \div I + J \times H$ (b) $I \div G + J + H$ (c) $I \div G + J \times H$
(d) $H + I \times J - G$ (e) Other than those given as options
27. Which of the given means 'B is a paternal aunt of A'?
- (a) $B + C + A$ (b) $B \div A + D$ (c) $B + D \div A$
(d) $B + T \times A$ (e) Other than those given as options
28. What will come in place of question mark (?) if K is paternal grandmother of L?
- $K \times H + U ? I + L$
- (a) + (b) × (c) –
(d) ÷ (e) Either (b) or (d)
29. In a certain code language 'ANT' is written as '731' and 'SAW' is written as '574' and 'EAR' is written as '871'. How will ANSWER be written in that code language?
- (a) 735841 (b) 753841 (c) 743861
(d) 735481 (e) Other than those given as options
30. If P means '-', N means '×', O means '÷' and M means '+' then
- $2 M 90 O 4 N 4 P 8 = ?$
- (a) 90 (b) 82 (c) 84
(d) 80 (e) 86
- Directions (31-35):** Study the following arrangement carefully and answer the questions given below:
- B 4 S T U V K 3 % F @ © L N 5 P 1 O \$ E 2 D C 6 # 9 Z Q 8 W
* M A
31. Which of the following is sixth to the left of the fifteenth from the left end of the given arrangement?
- (a) 2 (b) # (c) %
(d) \$ (e) Other than the given as option
32. How many such numbers are there in the given arrangement each of which is immediately preceded by a consonant but not immediately followed by a letter?
- (a) One (b) None (c) Five
(d) Two (e) Four
33. How many such symbols are there in the arrangement, each of which is immediately followed by a letter but not immediately preceded by a number?
- (a) One (b) Three (c) None
(d) Two (e) More than three
34. What should come in place of question mark (?) in the following series based on the above arrangement?
- TV3 @L5 OED ?
- (a) 69Q (b) #Z8 (c) 6#9
(d) #9Z (e) Other than the given options
35. Four of the following five are alike in a certain way based on their positions in the given arrangement and so from a group. Which is the one that does not belong to that group?
- (a) DC6 (b) @©L (c) 9ZQ
(d) 5P1 (e) #MW

QUANTITATIVE APTITUDE

- Directions (36-40) :** What should come in place of the question mark (?) in the following number series?
36. 7413, 7422, 7440, ?, 7503, 7548
(a) 7464 (b) 7456 (c) 7466

- (d) 7477 (e) None of these
37. 4, 16, 36, 64, 100, ?
 (a) 120 (b) 180 (c) 136
 (d) 144 (e) None of these
38. 12, 33, 96, ?, 852, 2553
 (a) 285 (b) 288 (c) 250
 (d) 384 (e) None of these
39. 70000, 14000, 2800, ?, 112, 22.4
 (a) 640 (b) 420 (c) 560
 (d) 540 (e) None of these
40. 102, 99, 104, 97, 106, ?
 (a) 96 (b) 95 (c) 100
 (d) 94 (e) None of these

Directions (41 – 45) : What should come in place of the question mark (?) in the following questions?

41. $(251 \times 21 \times 12) \div ? = 158.13$
 (a) 250 (b) 400 (c) 300
 (d) 15 (e) None of these
42. $25.6\% \text{ of } 250 + \sqrt{?} = 119$
 (a) 4225 (b) 3025 (c) 2025
 (d) 5625 (e) None of these
43. $36865 + 12473 + 21045 - 44102 = ?$
 (a) 114485 (b) 28081 (c) 26281
 (d) 114845 (e) None of these
44. $(15.20)^2 - 103.04 \div ? = 8$
 (a) 12 (b) 6.5 (c) 8.2
 (d) 16 (e) None of these
45. $\frac{0.4 \times 1.5}{0.2} = ?$
 (a) 2 (b) 3 (c) 1.2
 (d) 0.5 (e) None of these

Directions (46-50) : Study the following table carefully and answer the question given below.

Number of Candidates Applying the Various Posts Across Various Companies

Posts Companies	Post	Post	Post	Post
	I	II	III	IV
A	960	850	950	830
B	1050	1005	820	740
C	965	920	915	920
D	720	750	850	960
E	840	825	760	765

46. The total number of candidates applying for various posts in Company D are what percent of the total number of candidates applying for various posts in Company A? (Rounded off to two digits after decimal)
 (a) 92.05 (b) 93.68 (c) 91.36
 (d) 97.36 (e) 85.91
47. The number of candidates applying for Post III in Company B are **approximately** what per cent of the total number of candidates applying for the various posts in the same company?
 (a) 25 (b) 30 (c) 15
 (d) 23 (e) 28

48. What is the approximate difference between the average number of candidates applying for Post I and the average number of candidates applying for Post IV across various companies?
 (a) 50 (b) 52 (c) 55
 (d) 60 (e) 53
49. What is the respective ratio of the total number of candidates applying for various posts in company E to the total number of candidates applying for various posts in Company C?
 (a) 319 : 372 (b) 31 : 29 (c) 372 : 319
 (d) 32 : 29 (e) None of these
50. What is the approximate average number of candidates applying for Post III in various companies?
 (a) 845 (b) 868 (c) 888
 (d) 879 (e) 859

Directions (51 - 55) : What approximate value should come in place of question mark (?) in the following questions?

Note : You are not expected to calculate the exact value.

51. $182.225 \times 21.652 \times 33.584 = ?$
 (a) 132507 (b) 149428 (c) 120426
 (d) 106438 (e) 112642
52. $63.5\% \text{ of } 8924.2 + ?\% \text{ of } 5324.4 = 6827.5862$
 (a) 36 (b) 22 (c) 17
 (d) 31 (e) 9
53. $1\frac{4}{7} + 7\frac{1}{3} + 3\frac{3}{5} = ?$
 (a) 21 (b) 8 (c) 25
 (d) 13 (e) 30
54. $\sqrt{8650} = ?$
 (a) 84 (b) 79 (c) 99
 (d) 87 (e) 93
55. $9546324 \div 4584 = ?$
 (a) 2149 (b) 1986 (c) 2083
 (d) 2247 (e) 1805
56. Prakash, Sunil and Anil started a business jointly investing Rs 11 lakh, Rs 16.5 lakh and Rs 8.25 lakh respectively. The profit earned by them in the business at the end of three years was Rs 19.5 lakh. What will be the 50% of Anil's share in the profit?
 (a) Rs 4.5 lakh (b) Rs 2.25 lakh (c) Rs 2.5 lakh
 (d) Rs 3.75 lakh (e) None of these
57. Cost of fencing a circular plot at the rate of Rs 15 per metre is Rs 3300. What will be the cost of flooring the plot at the rate of Rs 100 per square metre?
 (a) Rs 385000 (b) Rs 220000 (c) Rs 350000
 (d) Can't be determined (e) None of these
58. Four years ago Shyam's age was $\frac{3}{4}$ times that of Ram. Four years hence, Shyam's age will be $\frac{5}{6}$ times that of Ram. What is the present age of Shayam?
 (a) 15 yr (b) 20 yr (c) 16 yr
 (d) 24 yr (e) 8 yr
59. A, B and C together earn Rs. 2700 in 18 days. A and C together earn Rs. 940 in 10 days. B and C together earn Rs.

- 1520 in 20 days. Find the daily earning of C.
 (a) Rs. 20 (b) Rs. 40 (c) Rs. 10
 (d) Rs. 50 (e) none of these
60. A bag contains 5 red balls, 7 yellow balls and 3 pink balls. If two balls are drawn at random from the bag, one after another, what is the probability that the first ball is red and the second ball is yellow ?
 (a) $\frac{5}{12}$ (b) $\frac{3}{8}$ (c) $\frac{1}{4}$
 (d) $\frac{1}{8}$ (e) $\frac{1}{6}$
61. A man sold two watches, each for Rs. 495. If he gained 10% on one which and suffered a loss of 10% on the other, then what is the loss or gain percentage in the transaction ?
 (a) 1% gain (b) 1% loss (c) 100/99%
 (d) No gain no loss (e) None of these
62. Train A travelling at 126 km/hr speed, completely crosses Train B in 9 seconds. Train B is half the length of Train A and is travelling at a speed of 90 km/hr in the opposite direction (towards Train A). How much will Train A take to cross a platform of length 690 metres ?
 (a) 28 seconds (b) 32 seconds (c) 25 seconds
 (d) 30 seconds (e) 35 seconds
63. The simple interest accrued on an amount of Rs. 25000 at the end of 4 years is Rs. 8000. What would be the compound interest accrued on the same amount at the same rate in the same period?
 (a) Rs. 8765 (b) Rs. 9012.224 (c) Rs. 10132
 (d) Rs. 11120.242 (e) None of these
64. A student gets 20% of maximum marks in an examination fails by 5 marks. Second student gets 20 marks more than the passed marks and thus gets 30% of the maximum marks. What is the percentage marks required to pass?
 (a) 32% (b) 23% (c) 22%
 (d) 20% (e) 33%
65. A jar has 40 litres milk. From the jar, 8 litres of milk was taken out and replaced with an equal quantity of water. If 8 litres of the newly formed mixture is taken out the jar. What is the final quantity of milk in the jar?
 (a) 32.5 litres (b) 30 litres (c) 25.6 litres
 (d) 24.2 litres (e) 24 litres
- Directions (66-70):** In each of these questions two equations (I) and (II) are given. You have to solve both the equations and give answer
 (a) if $x > y$ (b) if $x \geq y$ (c) if $x < y$ (d) if $x \leq y$
 (e) if $x = y$ or no relation can be established between x and y
66. I. $81x^2 - 108x + 35 = 0$ II. $81y^2 - 72y + 15 = 0$
 67. I. $x^2 - 16x + 63 = 0$ II. $y^2 - 2y - 35 = 0$
 68. I. $2x^2 - 15x + 28 = 0$ II. $5y^2 - 34y + 24 = 0$
 69. I. $7x - 5y = 25$ II. $2x + 9y = 28$
 70. I. $17x = (13)^2 + \sqrt{196} + 5^2 + 4x$ II. $9y - 345 = 4y - 260$

ENGLISH LANGUAGE

Directions (71-80): Read the following passage carefully and answer the questions given below it. Certain words/ phrases are given in bold to help you locate them while answering some of the questions.

King Hutamasan felt he had everything in the world not only due to his riches and his noble knights, but because of his beautiful queen, Rani Matsya. The rays of the sun were put to shame with the iridescent light that Matsya illuminated, with her beauty and brains. At the right hand of the king she was known to sit and aid him in all his judicial probes. You could not escape her deep-set eyes when you committed a crime as she always knew the victim and the culprit. Her generosity preceded her reputation in the kingdom and her **hands** were always full to give. People in the kingdom **revered** her because if she passed by, she always gave to the compassionate and poor.

Far away from the kingly palace lived a man named Raman, with only ends to his poverty and no means to rectify it. Raman was wrecked with poverty as he had lost all his land to the landlord. His age enabled him little towards manual labour and so begging was the only alternative to salvage his wife and children. Every morning he went door to door for some work, food and money. The kindness of people always got him enough to take home. But Raman was a little self-centered. His world

began with him first, followed by his family and the rest. So he would eat and drink to his delight and return home with whatever he found excess. This routine followed and he never let anyone discover his interests as he always put on a long face when he reached home.

One day as he was relishing the bowl of rice he had just received from a humble home, he heard that Rani Matsya was to pass from the very place he was standing. Her generosity had reached his ears and he knew if he pulled a long face and showed how poor he was, she would hand him a bag full of gold coins-enough for the rest of his life, enough to buy food and supplies for his family. He thought he could keep some coins for himself and only **reveal** a few to his wife, so he can fulfill his own wishes.

He ran to the chariot of the Rani and begged her soldiers to allow him to speak to the queen. Listening to the arguments outside Rani Matsya opened the curtains of her chariot and asked Raman what he wanted. Raman went on his knees and praised the queen, "I have heard you are most generous and most chaste, show this beggar some charity. Rani narrowed her brows and asked Raman what he could give her in return. Surprised by such a question, Raman looked at his bowl full of rice. With spite in him he just picked up a few grains of rice and

gave it to her. Rani Matsya counted the five grains and looked at his bowl full of rice and said, you shall be given what is due to you. Saying this, the chariot **galloped** away.

Raman abused her under his breath. This he never thought would happen. How could she ask him for something in return when she had not given him anything? Irritated with anger he stormed home and gave his wife the bowl of rice. Just then he saw a sack at the entrance. His wife said some men had come and kept it there. He opened it to find it full of rice. He put his hand inside and caught hold of a hard metal only to discover it was a gold coin. **Elated** he upturned the sack to find five gold coins in exact for the five rice grains. If only I had given my entire bowl, thought Raman, I would have had a sack full of gold.

71. According to the passage, which of the following is definitely true about Rani Matsya?

- (A) She was beautiful (B) She was intelligent
(C) She was kind

- a) Only (A) b) Only (B) c) Only (C)
d) Only (A) and (C) e) All the three (A), (B) and (C)

72. What does the phrase 'pulled a long face', as used in the passage mean?

- a) Scratched his face b) Looked very sorrowful
c) Disguised himself d) Put on makeup
e) None of these

73. What can possibly be the moral of the story?

- a) Do unto others as you would want others to do to you.
b) Patience is a virtue.
c) Winning is not everything, it is the journey that counts.
d) Change is the only constant thing in life.
e) Teamwork is more we and less me

74. Why was begging the only option for Raman to get food?

- a) Raman belonged to a family of beggars.
b) Begging was the easiest way for him to obtain food.
c) Raman's family had forced him to beg.
d) He had lost all his property and was too old to do manual work.
e) None of these

75. Which of the following words can be used to describe Raman?

- (A) Deceitful (B) Selfish (C) Timid

- a) Only (A) b) Only (B)
c) Only (A) and (B) d) Only (B) and (C)
e) All the three (A), (B) and (C)

76. Choose the word which is most similar in meaning to the word given below, as used in the passage.

GALLOPED

- a) hurtled b) stumbled c) slumbered
d) jumped e) ran

77. Choose the word which is most similar in meaning to the

word given below, as used in the passage.

REVERED

- a) remembered b) feared c) talked about
d) embraced e) respected

78. Choose the word which is most similar in meaning to the word given below, as used in the passage.

HANDS

- a) arm b) throw c) give
d) limb e) lend

79. Choose the word which is most opposite in meaning to the word given below, as used in the passage.

REVEAL

- a) stop b) conceal c) present
d) pending e) tell

80. Choose the word which is most opposite in meaning to the word given below, as used in the passage.

ELATED

- a) afraid b) poor c) happy
d) depressed e) grounded

Directions (81-85): Rearrange the following sentences (A), (B), (C), (D), (E), (F), and (G) in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

- (A) One singular aspect of the problem of euthanasia is the Law.
(B) It is because intelligent people have seen that modern medical technology can be misused wittingly or unwittingly.
(C) Before their eyes is the picture of a man or woman for whom you can do nothing but is still hooked onto an artificial machine.
(D) Why is it that euthanasia is being talked about more and more these days ?
(E) It is in situation like this that one's deep sense of humanism and compassion should come into play to relieve the pain and suffering.
(F) It is more or less like keeping a corpse live.

81. Which of the following should be the **Sixth (LAST)** sentence after the rearrangement?

- (a) A (b) B (c) C (d) D (e) E

82. Which of the following should be the **THIRD** sentence after the rearrangement?

- (a) A (b) B (c) C (d) D (e) E

83. Which of the following should be the **FIFTH** sentence after the rearrangement?

- (a) A (b) B (c) C (d) D (e) E

84. Which of the following should be the **FIRST** sentence after the rearrangement?

- (a) D (b) B (c) C (d) A (e) E

85. Which of the following should be the **SECOND** sentence

after the rearrangement?

- (a) A (b) B (c) C (d) D (e) F

Directions (86-90) : In each of the following sentences, a part of the sentence has been italicized. Below are given alternatives to the part italicized which may improve the sentence. Choose the correct alternative. Wherever no improvement is needed choose 'No correction required' or 'No Improvement' as the answer.

86. He will be greatly surprised if he was **felicitated** by his staff members.

- (a) if he will have felicitated (b) unless he was felicitated
(c) if he is felicitated
(d) if he would have felicitated (e) No correction required

87. Do you know when **shall he be leaving** for his higher studies in the USA?

- (a) should he be left (b) he would be leaving
(c) he would be left (d) would he have left
(e) No correction required

88. The labour contractors reported that they **had finished** the work of building the stone wall.

- (a) had been finished (b) was finished
(c) could be finished (d) has finished
(e) No correction required

89. For want of financial resources, he was **unable to continue** his studies.

- (a) enabled to continue (b) unable to be continued
(c) unable to have continued (d) unable to continuing
(e) No correction required

90. He complained of **being unjustly treatment**.

- (a) of being unjustly treated
(b) for being injustice in treatment
(c) that unjust treatment being given
(d) for being unjustly treatment (e) No correction required

Directions (91-95) : Find out the error, if any. If there is no error, the answer is (e), i.e. No error. (Ignore the errors of punctuation, if any.)

91. He submitted (a)/ the request for compensation (b)/ of time but (c)/ it was denied. (d)/ No error (e).

92. Unfortunately today many (a)/ parents cannot afford (b)/ to send its (c)/ children to school. (d)/ No error (e).

93. He was convinced (a)/ that he (b)/ loss the account (c)/ because of bad luck. (d)/ No error (e).

94. Many customers have (a)/ complained because (b)/ his goods was (c)/ inferior in quality. (d)/ No error (e).

95. In his opinion (a)/ every senior citizens (b)/ will benefit (c)/ from the new rule. (d)/ No error (e).

Directions (96- 100): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the

appropriate word in each case.

There will not be any**96**.... to the Indian of Suzuki Motor Corporation (SMC) as none of the cars that is manufactured by Maruti Suzuki India (MSIL) is**97**... to the US. The American distributor of Japan-based SMC filed for bankruptcy**98**.... with the company saying it will**99**.... selling cars in the US. The Indian manufacturing units at Manesar and Gurgaon in Haryana export to European countries, West Asia, Africa, Indonesai and Latin America, an MSIL spokesperson told Business Line. The company exports models including Alto, A-Star, Ritz and Estilo to**100**..... countries.

- 96.** (a) knock (b) issue (c) impact
(d) tension (e) excitement
97. (a) imported (b) hide (c) exported
(d) cargo (e) transferred
98. (a) attack (b) material (c) protection
(d) shade (e) conservation
99. (a) initiate (b) cease (c) arrest
(d) crown (e) end
100.(a) those (b) them (c) that
(d) these (e) their

Solutions:

Directions (1 – 5):

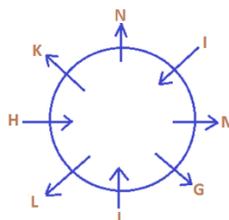


1. (a)
2. (e)
3. (e)
4. (c)
5. (b)

Directions (6 –10):

- | | |
|--------------------------------------|------------------------------|
| 6. (e); I. $C < K$ (True) | II. $B \leq D$ (True) |
| 7. (b); I. $A \geq J$ (False) | II. $K > B$ (True) |
| 8. (a); I. $B > N$ (True) | II. $L < K$ (false) |
| 9. (a); I. $L > N$ (True) | II. $L = N$ (False) |
| 10. (d); I. $C < F$ (False) | II. $C = F$ (False) |
- [Either I or II are true]

Direction (11-15):



- 11. (b)
- 12. (b)
- 13. (c)
- 14. (b)
- 15. (b)

Directions (16 – 20):

Word	Code
Your	83
self	37
result	75
rohit	86
was/good	58/53
my	16
is	76
what	38
register/now	56/71

- 16. (b)
- 17. (d)
- 18. (d)
- 19. (a)
- 20. (c)

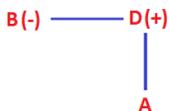
Directions (21-25):

Days	Exams
SUNDAY	U
MONDAY	Z
TUESDAY	V
WEDNESDAY	X
THURSDAY	F
FRIDAY	W
SATURDAY	Y

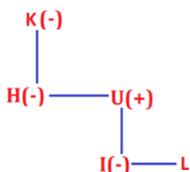
- 21. (d)
- 22. (a)
- 23. (e)
- 24. (c)
- 25. (c)

Direction (26-28):

- 26. (e)
- 27. (c)



- 28. (d)



- 29. (d)

ANT	SAW	EAR	ANSWER
732	574	871	735481

- 30. (c) $2+90\div 4\times 4-8=84$

Direction (31-35):

- 31. (c) $L=6^{\text{th}}$
 $\frac{L=15^{\text{th}}}{L=9^{\text{th}}}$

- 32. (d)

B4STUVK3%F@©LN5P1O\$E2DC6#9ZQ8W*MA

- 33. (b)

B4STUVK3%F@©LN5P1O\$E2DC6#9ZQ8W*MA

- 34. (b)

- 35. (e)

- 36. (e); Series is $+9, +(9 \times 2), +(9 \times 3), +(9 \times 4), \dots$

$$7440 + (9 \times 3) = 7467$$

- 37. (d); Series is $2^2, 4^2, 6^2, 8^2, 10^2$

$$\therefore 12^2 = 144$$

- 38. (a); Series is $\times 3 - 3, \times 3 - 3, \times 3 - 3, \dots$

$$96 \times 3 - 3 = 285$$

- 39. (c); Series is $\div 5, \div 5 \div 5$

$$2800 \div 5 = 560$$

- 40. (b); Series is $-3, +5, -7, +9, -11$

$$\therefore 106 - 11 = 95$$

- 41. (b); $\frac{63252}{?} = 158.13$

$$? = 400$$

- 42. (b); $64 + \sqrt{?} = 119$

$$\sqrt{?} = 55$$

$$? = 55 \times 55$$

$$= 3025$$

- 43. (c); $70383 - 44102$

$$= 26281$$

- 44. (e); $231.04 - \frac{103.04}{?} = 8$

$$? = \frac{103.04}{223.04} = 0.46 \text{ (approx)}$$

- 45. (b); $\frac{0.6}{0.2} = 3$

- 46. (c); $\frac{3280}{3590} \times 100 = 91.36\%$

- 47. (d); $\frac{820}{3615} \times 100 = 23\%$ (approx)

- 48. (e); $\frac{4535}{6} - \frac{4215}{6}$
 $= \frac{320}{6} \approx 53$ (approx)

49. (a); $\frac{3190}{3720} = \frac{638}{744} = \frac{319}{372}$
50. (e); $\frac{4295}{5} = 859$
51. (a); $3945.5357 \times 33.584 \approx 132507$
52. (b); $5666.867 + \frac{?}{100} \times 5324.4 = 6827.5862$
 $? = 22$ (approx)
53. (d); $= \frac{11}{7} + \frac{22}{3} + \frac{18}{5} = \frac{165+770+378}{105} \approx 13$ (approx)
54. (e) $\sqrt{8650} \approx 93$
55. (c); $9546324 \div 4584 \approx 2083$
56. (b); Ratio of profit = $11 \times 3 : 16.5 \times 3 : 8.25 \times 3$
 $= 11 : 16.5 : 8.25$
 $= 4 : 6 : 3$
 Anil's share = $\frac{3}{13} \times 19.5 = 4.5$
 50% of Anil's share = 50% of 4.5
 $= 2.25$
57. (a); Circumference of plot = $\frac{3300}{15} = 220$
 $2\pi r = 220$
 $r = \frac{220 \times 7}{2 \times 22} = 35$
 Area of floor = $\pi r^2 = \frac{22}{7} \times 35 \times 35$
 $= 3850$
 Cost of flooring = 3850×100
 $= 385000$
58. (c); Four year ago
 Shyam : Ram = 3 : 4
 After 4 yr,
 $\frac{3x+8}{4x+8} = \frac{5}{6}$
 $x = 4$
 Present age of Shyam = $3x + 4 = 16$
59. (a) $A + B + C = \frac{2700}{18}$
 $A + B + C = 150$ _____ (1)
 $A + C = \frac{940}{10}$
 $A + C = 94$ _____ (2)
 From (1) and (2)
 $B = 56$
 $B + C = \frac{1520}{20}$
 $B + C = 76$ _____ (3)
 $C = 20$
60. (e); Probability of first ball to be red = $\frac{5c_1}{15c_1} = \frac{5}{15} = \frac{1}{3}$
 Probability of second ball to be yellow = $\frac{7c_1}{14c_1} = \frac{7}{14} = \frac{1}{2}$
 \therefore Required probability = $\frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$
61. (b); Loss/gain % = $\left(10 - 10 - \frac{10 \times 10}{100}\right)\%$
 $= -1\%$
- (– sign indicate that there is a loss of 1%)
62. (d); Length of train A = $2x$ m
 Length of train B = x m
 $(126 + 90) \times \frac{5}{18} = \frac{3x}{9}$
 $x = 180$ m
 $time = \frac{360+690}{126 \times \frac{5}{18}} = \frac{1050}{35} = 30$ sec
63. (b); Rate = $\frac{8000 \times 100}{25000 \times 4} = 8\%$
 C.I. = $25000 \left[\left(1 + \frac{8}{100}\right)^4 - 1 \right]$
 $= 9012.224$ Rs.
64. (c); Let the maximum marks is M .
 $0.3M - 20 = 0.2M + 5$
 $0.1M = 25$
 $M = 250$
 Passing marks = $0.2M + 5 = 55$
 Passing percent = $\frac{55}{250} \times 100 = 22\%$
65. (c); Quantity of milk in mixture = $\left(1 - \frac{8}{40}\right)^2 \times 40$
 $= \left(1 - \frac{1}{5}\right)^2 \times 40$
 $= \frac{16}{25} \times 40$
 $= 25.6$ litre
66. (b); $x = \frac{7}{9}, \frac{5}{9}$
 $y = \frac{3}{9}, \frac{5}{9}$
 $x \geq y$
67. (b) $x = +9, +7; y = +7 - 5$
 $x \geq y$
68. (e) $x = 4, \frac{7}{2}$
 $y = 6, \frac{4}{5}$
 No relation
69. (a) $x = 5$
 $y = 2$
 $x > y$
70. (c) $x = 16$
 $y = 17$
 $y > x$
71. e; The first paragraph of the passage states that Rani Matsya was beautiful. She assisted the king in his judicial probes and would always keep her finger on the pulse of victims and culprits. Also, she was generous and her hands always reached out to help the compassionate and the poor. So, we can conclude that Rani Matsya was beautiful, kind and intelligent. Hence, option (e) is the correct answer.
72. b; The phrase 'pulled a long face' means to have an

unhappy or disappointed expression. Hence, option (b) is the correct answer.

73. a; The story in the given passage revolves around the generous Rani Matsya and self-centered Raman. He desired for a bag full of gold coins, which would enable him to buy food and supplies for his family. When Rani asked Raman what he could give her in return, he simply gave five grains of rice to her and in turn Rani gave him only five gold coins. At that moment, Raman realized that if he had given the entire bowl, the Rani would have given him a sack full of gold coins. So, the moral of the story is 'do unto others as you want others to do to you.' Hence, option (a) is the correct answer.

74. d; The second paragraph of the passage clearly states that Raman was wrecked with poverty as he had lost all his land to the landlord and his age enabled him little towards manual work. So, begging was the only option to salvage his wife and children. Hence, option (d) is the correct answer.

75. c; The second paragraph of the passage states that Raman was self-centered. He would eat and drink to his heart's content and return home with whatever he found excess. So, we can conclude that Raman was 'selfish'. 'Deceitful' means behaving in a dishonest way by telling lies. We can say Raman was 'deceitful' because he never let anyone discover his interests as he always put a long face when he returned home. Hence, option (c) is the correct answer.

76. e; 'Galloped' refers to the way a horse or any animal moves when it is running very fast. Hence, option (e) is the correct answer.

77. e; 'Revered' means to show a great respect or admiration for someone. Hence, option (e) is the correct answer.

78. d; 'Limb' is a synonym of 'hand' because both are used as a grasping organ. Hence, option (d) is the correct answer.

79. b; 'Reveal' means to make something known to somebody. 'Conceal', which means to keep something secret, is an antonym of the word. Hence, option (b) is the correct answer.

80. d; 'Elated' means very happy and excited. 'Depressed' is opposite in meaning to the word. Hence, option (d) is the correct answer.

For questions (81-85); The correct answer is DBCFEA.

81. (a); A

82. (c); C

83. (e); E

84. (a); D

85. (b); B

86. (c) The if-clause should have a simple present tense verb in this conditional sentence.

87. (b) The 'Do you know' at the beginning of the sentence makes another question from ('when shall he be') redundant. Moreover, 'shall' is used with 'I' and 'we' only, as per standard English grammar.

88. (e) The work had been finished at the time that the labour contractors reported about it. So the past perfect tense is used.

89. (e) 'Unable' (adj.) means 'not able to'. It is the opposite of 'able'. 'Enable' (v.) is 'to make able'.

90. (a) 'Unjustly' is an adverb meaning 'not in a just manner'. Here it modifies the verb 'treated' ('treatment' is noun).

91. (c) Compensation is always followed by the preposition 'for'.

92. (c) Replace 'its' with 'their' because 'parents' is plural.

93. (c) Use 'lost' in place of 'loss' because loss is not a verb. It is a noun.

94. (c) Replace 'his goods was' with 'their goods were', because pronoun should come according to the subject "Many customers" and it is plural. So, we should use 'their' in place of 'his'.

95. (b) 'Every' is always followed by a Singular Noun

96. (c)

97. (a)

98. (c)

99. (b)

100. (d)

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REASONING ABILITY

Direction (1-5): Study the following information carefully and answer the questions given below-

Five persons A, B, C, D and E are brothers and they are living in village Sushil Nagar and they are fan of five different Filmstars-Amitabh, Salman, Akshay, Varun and Ranbir but not necessary in same order. Five women's P, Q, R, S and T are famous Bollywood celebrities and they are married to five persons who live in Sushil Nagar. All Bollywood celebrities are also fan of different cricketers-Virat, Dhoni, Rohit, Dhawan and Jadeja but not necessary in same order. S is either fan of Virat or Jadeja but does not married to one who is fan of Salman. A is not fan of Salman or Amitabh but married to one who is fan of Jadeja. The one who is fan of Rohit is married to E.

The person who is fan of Amitabh is either married to S or T. E is not married to P, who is fan of either Rohit or Dhawan. D is not fan of Akshay or Ranbir but married to one who is fan of Dhoni. C is married to R but is not fan of Ranbir or Salman. R is not married to one who is fan of Salman. Q is married to one who is fan of Akshay.

1. Who is married to S?
(a) A (b) B (c) C
(d) D (e) E
2. Who is fan of Varun?
(a) A (b) B (c) C
(d) D (e) E
3. Wife of E is fan of which of the following cricketers?
(a) Rohit (b) Jadeja (c) Virat
(d) Dhoni Gandhi (e) Dhawan
4. Who is fan of Dhoni?
(a) Wife of C (b) P (c) Q
(d) T (e) Wife of one who is fan of Salman
5. Who is married to one who is fan of Ranbir?
(a) The one who is fan of Dhawan
(b) The one who is fan of Virat
(c) The one who is fan of Rohit
(d) The one who is fan of Jadeja
(e) Cannot be determined

Direction (6-10): In these questions, relationships between different elements are shown in the statements. These statements are followed by two conclusions. Give answer-

- (a) if only conclusion I follows
- (b) if only conclusion II follows
- (c) if either conclusion I or conclusion II follows
- (d) if neither conclusion I nor conclusion II follows
- (e) if both conclusions I and II follow

6. **Statements:** $A > L = T < R \leq H > K$
Conclusions: I. $H > L$ II. $K > T$
7. **Statements:** $P \geq N > D \geq G < B \leq J$
Conclusions: I. $G < P$ II. $G < J$

8. **Statement:** $Q \leq E < I > N = R \geq S$
Conclusions: I. $E \geq S$ II. $S \leq N$
9. **Statement:** $R = S \geq Y \geq M < W > O$
Conclusions: I. $Y < M$ II. $O > S$
10. **Statement:** $F \leq C \leq V = Z < X = U$
Conclusions: I. $V < U$ II. $Z < F$

Directions (11 – 15): Study the following information carefully and answer the question given below:

There are eight persons namely- P, Q, R, S, T, U, V and W sitting around a circular table facing the centre, but not necessarily in the same order. Each person belongs to different states i.e. Andhra, Bengal, Bihar, Sikkim, Punjab, Rajasthan, Kerala and Karnataka and also likes different colours viz. - Red, Blue, Yellow, Orange, Purple, Violet, Pink and Black, but not necessarily in the same order.

The person who belongs to Kerala sits second to the right of S, who belongs to neither Rajasthan nor Punjab. U sits second to the right of the one, who belongs to Rajasthan. The one who likes Purple sits second to the left of the one, who belongs to Bengal. Two people sit between the one, who belong to Punjab and Q. V and the one, who belongs to Sikkim are immediate neighbours of each other. Persons who like Orange and Violet are adjacent to the one who belongs to Sikkim. The person who likes Orange sits immediate left of the one who belongs to Bengal. Q does not like Pink and Black. The one who likes Black sits second to the right of the one who likes Pink. R and T are immediate neighbours of each other. Neither R nor T is an immediate neighbour of either Q or the one who belongs to Rajasthan. Q does not belong to Sikkim. The one who belongs to Bengal sits second to the left of the one who belongs to Karnataka. Person who likes Yellow sits fourth to the right of the one who likes Blue. The one who likes Pink is not an immediate neighbour of the one who belongs to Rajasthan. P likes Black. Only one person sits between R and the one who belongs to Andhra. W sits third to the left of the one who belongs to Bihar.

11. What is the position of Q with respect to the one, who belongs to Bengal?
(a) Second to the left (b) Second to the right
(c) Sixth to the left
(d) Third to the right (e) Both (b) and (c)
12. Which of the following colour does Q like?
(a) Purple (b) Red (c) Yellow
(d) Blue (e) None of these
13. Who sits opposite to P?
(a) The one who belongs to Rajasthan
(b) The one who belongs to Bengal
(c) The one who belongs to Sikkim
(d) The one who belongs to Bihar
(e) None of these

14. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?

- (a) S (b) The one who likes Black
(c) The one who belongs to Bengal
(d) The one who belongs to Sikkim
(e) The one who likes Orange

15. U belongs to which of the following state?

- (a) Bihar (b) Kerala (c) Punjab
(d) Bengal (e) Sikkim

Direction (16-20): In each question below are given three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer-

- (a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusions I and II follow.

16. **Statements:** Some aniket are neeraj.

Some neeraj are panda. No panda is bikki.

Conclusions: I. All bikki being neeraj is a possibility.

II. No bikki is a panda.

17. **Statements:** All rohit are raj.

All raj are rahul. Some rahul are roshan.

Conclusions: I. At least some roshan are raj.

II. All raj being rohit is a possibility.

18. **Statements:** Some trees are plants.

All plants are chair. All chairs are table.

Conclusions: I. Some plants are table.

II. Some trees are chair.

(19-20):

Statements: All guavas are papaya.

Some papayas are mango. No mango is a banana.

19. **Conclusions: I.** Some guavas are mango.

II. No guava is a papaya.

20. **Conclusions: I.** Some bananas being mango is a possibility.

II. Some papayas are guavas.

Direction (21-25): Six exams Civics, Science, Hindi, History, Geography and Polity were organized From Monday to Sunday in a week. Six friends- P, Q, R, S, T and U have attended these exams. One day was remaining in the week. It was called none exam day. Neither Sunday nor Monday was none exam day.

- All Six exams were scheduled in the July month.
- Civics exam was not organized on the day which is just after the day on which History exam was organized but was organized on the day which is after the day on which History exam was organized.
- Science exam was organized on the day which is just before the day on which Polity was organized.
- Science exam was attended by S's father on the day which is

before Sunday. Hindi was organized on 26 July and Geography was organized on 31 July.

- T's grandfather was a brother of Q. P had two sons.
 - Exams were organized in such a way that three exams were continuing means there was no break between three exams. No exam day was also not coming among three days, but none exam day was coming just later or just before of three day exam sets.
 - S's father was a brother of T's father.
 - The exam on 30 July was attended by R who is uncle of S.
 - The exam was attended by Q on the day which is immediate before the day on which the exam was attended by P.
 - The exam on Wednesday was attended by T's cousin.
21. On which of the following day does T attend the exam?
(a) Monday (b) Wednesday (c) Saturday
(d) Sunday (e) Thursday
22. Which of the following given statement is true?
(a) Civics exam was organized just before Science exam
(b) Hindi exam was organized before History exam
(c) First exam was organized on 25th July
(d) Civics exam was organized on Friday
(e) None of these
23. How is Q related to U?
(a) Father (b) Son (c) Maternal Uncle
(d) Paternal Uncle (e) Cannot determined
24. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
(a) Sunday (b) Wednesday (c) Thursday
(d) Friday (e) Monday
25. If all friends are arranged in an alphabetical order from Monday to Sunday, then the exam was organized on 29th July by whom among the following friend?
(a) P (b) S (c) Q
(d) R (e) U

Direction (26-27): Study the following information carefully to answer the given questions:

Mohan starts his journey from his home and he walks 4 km towards South direction. He takes a left turn and walks 8 km. After that he takes a right turn and walks 4 km. Now, he walks 14 km after taking a right turn. Finally he reached his office.

26. Mohan's home is in which direction with respect to Mohan's office?
(a) South-West (b) North (c) West
(d) North-east (e) North-west
27. How far is Mohan's office from Mohan's house?
(a) 20 km (b) 10 km (c) 15 km
(d) 12 km (e) None of these

Direction (28 – 32): Study the following information to answer the given question.

Ten persons are sitting in two parallel rows containing five persons each. In row 1, Aniket, Rohan, Trilok, Aman and Abhay are sitting and all of them are facing south. In row 2, Vinod, Sonu, Ajay, Ajeet and Sujeet are sitting and all of them are facing north. In the given seating arrangement, each member seated in a row faces another

member of the other row. Moreover, each of them likes different colours-Pink, White, Red, Blue, Green, Yellow, Grey, Purple, Orange and Violet but not necessarily in the same order.

There are only two persons sitting between the person liking Pink colour, who sits at an extreme end and Abhay. Vinod, who sits in the middle of the row, is not an immediate neighbour of Sonu, who does not like Violet colour. Sujeet sits at an extreme end. Abhay, who likes Green colour, sits on the immediate right of the person who likes White colour and faces the immediate neighbour of Sonu. Rohan is not sitting at the extreme left end. Vinod does not like Orange colour. There is only one person sitting between Trilok and Aman, who likes Pink colour. Ajeet, who likes Yellow colour, is an immediate neighbour of the person who likes Violet colour and does not face the person who likes Red colour. Ajay, who likes Blue colour, is an immediate neighbour of the person who likes Orange colour, who in turn faces the immediate neighbour of the person who likes Green colour. There are two persons between the person who likes Grey colour and the person who likes Red colour. Rohan does not like Grey colour. Sujeet does not like Purple colour.

28. Aniket likes which of the following colour?
 (a) Purple (b) Grey (c) Red
 (d) None of these (e) Can't be determined
29. Who likes Purple colour?
 (a) Ajay (b) Rohan (c) Sujeet
 (d) Vinod (e) Can't be determined
30. 'Pink' is related to 'Grey' in a certain way, based on their seating positions. Then Violet is related to whom, following the same seating positions?
 (a) Purple (b) Orange (c) White
 (d) Yellow (e) Blue
31. Four of the following five are alike in a certain way based on their seating positions and so form a group. Which of the following is different from the group?

- (a) Green (b) Grey (c) Violet
 (d) Blue (e) Yellow

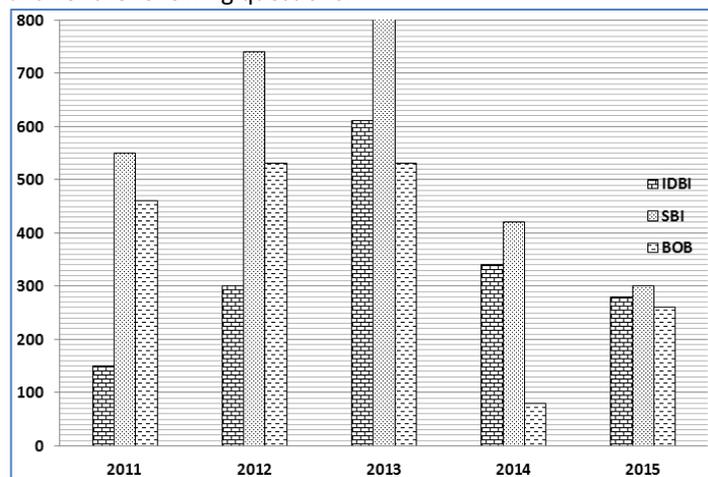
32. Which of the following statement(s) is/are definitely false?
 (a) Rohan likes Red colour.
 (b) There are two persons sitting between the person who likes Yellow colour and the person who likes Orange colour.
 (c) The person who likes White colour faces the person who likes Purple colour.
 (d) The person who likes Orange colour sits opposite the person who likes Pink colour.
 (e) All are true.

Direction (33-34): Following questions are based on the information given below.

- I. 'P × Q' means 'P is father of Q'
 II. 'P - Q' means 'P is sister of Q'
 III. 'P + Q' means 'P is mother of Q'
 IV. 'P ÷ Q' means 'P is the brother of Q'
33. In the expression $B + D \times M \div N$, how M related to B?
 (a) Granddaughter (b) Son (c) Grandson
 (d) Granddaughter or Grandson (5) None of these
34. Which of the following represents 'J' is son of 'F'?
 (a) $J \div R - T \times F$ (b) $J + R - T \times F$ (c) $J \div M - N \times F$
 (d) Cannot be determined (e) None of these
35. Mahesh correctly remembers that his mother's birthday is before twenty third of April but after Nineteenth of April, whereas his sister correctly remembers that their mother's birthday is not on or after twenty second of April. On which day in April is definitely their mother's birthday?
 (a) Twentieth (b) Twenty-first
 (c) Twentieth or twenty-first (d) Can't be determined
 (e) None of these

QUANTITATIVE APTITUDE

Directions (36-40): Following bar chart shows the No. of students enrolled in entrance test of different Banks from 2011 to 2015 for the post of Assistant Manager. Study the data and answer the following questions.



36. Total number of students enrolled from 2012 to 2015 for SBI bank are what % more than the total number of students enrolled from 2011 to 2015 for IDBI bank? (Rounded off to two decimal points)
 (a) 34.52% (b) 35.62% (c) 34.82%
 (d) 33.12% (e) None of these
37. What is the % increase for students enrolled in IDBI bank from 2011 to 2015? (Rounded off to two decimal points)
 (a) 69.23% (b) 85.21% (c) 86.67%
 (d) 66.67% (e) None of these
38. For year 2015, if the ratio of male to female is 11 : 2 for Bank of Baroda(BOB) than find the ratio of number of male students enrolled in Bank of Baroda in 2015 to the total number of students enrolled from 2013 to 2015 in Bank of Baroda?
 (a) 11 : 43 (b) 43 : 11 (c) 9 : 33
 (d) 33 : 9 (e) None of these
39. 55% of the students enrolled in year 2015 are post-graduates then find the ratio of total students enrolled in 2012 to the

- non-post graduate students enrolled in 2015 ?
 (a) 777 : 221 (b) 221 : 777 (c) 999 : 161
 (d) 161 : 999 (e) None of these

40. Find the ratio of the average students enrolled in 2012 to the average students enrolled in 2013 ?

- (a) 194 : 157 (b) 157 : 194 (c) 153 : 191
 (d) 191 : 153 (e) None of these

Directions (41-45): Study the table carefully and answer the given questions.

Data related to number of candidates appeared and qualified in a competitive exam from 2 states during 5 years

Years	State P		State Q	
	Number of appeared candidates	Percentage of appeared candidates who qualified	Number of appeared candidates	Percentage of appeared candidates who qualified
2006	450	60%	–	30%
2007	600	43%	–	45%
2008	–	60%	280	60%
2009	480	70%	550	50%
2010	380	–	400	–

41. Out of the number of qualified candidates from State P in 2008, the respective ratio of male and female candidates is 11 : 7. If the number of female qualified candidates from State P in 2008 is 126, what is the number of appeared candidates (both male and female) from State P in 2008 ?

- (a) 630 (b) 510 (c) 570
 (d) 690 (e) 540

42. The number of appeared candidates from State Q increased by 100% from 2006 to 2007. If the total number of qualified candidates from State Q in 2006 and 2007 together is 408, what is the number of appeared candidates from State Q in 2006?

- (a) 380 (b) 360 (c) 340
 (d) 320 (e) 300

43. What is the difference between the number of qualified candidates from State P in 2006 and that in 2007?

- (a) 12 (b) 22 (c) 14
 (d) 24 (e) 16

44. If the average number of qualified candidates from State Q in 2008, 2009 and 2010 is 210, what is the number of qualified candidates from State Q in 2010?

- (a) 191 (b) 195 (c) 183
 (d) 187 (e) 179

45. If the respective between the number of qualified candidates from State P in 2009 and 2010 is 14 : 9, what is the number of qualified candidates from State P in 2010?

- (a) 252 (b) 207 (c) 216
 (d) 234 (e) 198

Direction (46-50): Two equations (I) and (II) are given in each question. On the basis of these equations you have to decide the relation between 'x' and 'y' and give answer.

- (a) if $x > y$ (b) if $x \geq y$
 (c) if $x < y$ (d) if $x \leq y$
 (e) if $x = y$ or relation cannot be established.

46. I. $77x^2 + 58x + 8 = 0$ II. $42y^2 + 59y + 20 = 0$

47. I. $63x^2 + 172x + 117 = 0$ II. $30y^2 + 162y + 216 = 0$

48. I. $36x^4 + 369x^2 + 900 = 0$ II. $144y^4 + 337y^2 + 144 = 0$

49. I. $18x^2 - 13\sqrt{7}x + 14 = 0$ II. $32y^2 - 19\sqrt{6}y + 9 = 0$

50. I. $x^2 - 82x + 781 = 0$ II. $y^2 - 5041 = 0$

Directions (51-55): Find out the next number in place of question mark (?) in the following number series.

51. 27, 50, 192, 1140, 9104, ?

- (a) 90080 (b) 91020 (c) 92410
 (d) 92740 (e) none of these

52. 16, 49, 345, 3798, ?

- (a) 56974 (b) 56812 (c) 55784
 (d) 54312 (e) None of these

53. 5, 47, 417, 3327, 23277, ?

- (a) 131642 (b) 133712 (c) 135416
 (d) 139647 (e) None of these

54. 3, 37, 285, 1749, 8797, ?

- (a) 34856 (b) 35062 (c) 35253
 (d) 35416 (e) 35622

55. 7, 736, 1248, 1591, 1807, ?

- (a) 1932 (b) 2008 (c) 2140
 (d) 2190 (e) 2216

Directions (56-60): What should come in place of the question mark (?) in the following questions?

56. $666 \div (2.4 \times ?) = 185$

- (a) 1.5 (b) 2.5 (c) 0.5
 (d) 5 (e) None of these

57. $956 \times 753 = ?$

- (a) 723692 (b) 727398 (c) 710308
 (d) 719868 (e) None of these

58. $\frac{3}{8} \times \frac{4}{7} \times ? = 5376$

- (a) 30912 (b) 25144 (c) 24808
 (d) 25088 (e) None of these

59. $[(9)^3 \times (?)^2] \div 21 = 1701$

- (a) 6 (b) 3 (c) 11
 (d) 4 (e) None of these

60. $897214 - 336 - 46521 - 1249 - 632176 = ?$

- (a) 217832 (b) 216725 (c) 216932
 (d) 315950 (e) None of these

61. There was 120 litres of pure milk in a vessel. Some quantity of milk was taken out and replaced with 23 litres of water in such a way that the resultant ratio between the quantities of milk and water in the mixture was 4 : 1 respectively. Again 23 litres of the mixture was taken out and replaced with 27 litres of water. What is the respective ratio of milk and water in the resultant mixture ?

- (a) 58 : 37 (b) 116 : 69 (c) 69 : 43
 (d) 101 : 37 (e) None of these

62. A watch dealer usually sells watches for Rs.2350 per watch. Once he gave two successive discounts of 15% and 25%

- while selling a watch to a customer. But he charged an additional 8% on the net sale price from the customer. By what percent is the new selling price less than the original selling price?
- (a) 28.45% (b) 29.25% (c) 30.45%
(d) 31.15% (e) none of these
63. P and Q started a business by investing Rs. 45,000 and Rs.54,000 respectively. After four months R joined the business with a capital of Rs. 30,000. After two more months Q left the business with his capital. At the end of the year P got a share of Rs. 13,500 in the profit. What is the total profit earned?
- (a) Rs 26800 (b) Rs 27600 (c) Rs 28600
(d) Rs 29200 (e) none of these
64. A water reservoir has two inlets and one outlet. Through the inlet it can be filled in 3 hours and 3 hours 45 minutes respectively. It can be emptied completely in 1 hour by the outlet. If the two inlets are opened at 01:00 pm and 02:00 pm respectively and the outlet at 03:00 pm then it will be emptied at.
- (a) 05 : 55 pm (b) 05 : 00 pm (c) 05 : 20 pm
(d) 05 : 30 pm (e) none of these
65. A sum of money was invested for 14 years in Scheme A, which offered simple interest at a rate of 8% pa. The amount received from Scheme A after 14 years was then invested for two years in Scheme B, which offers compound interest (compounded annual) at a rate of 10% pa. If the interest received from Scheme B was Rs. 6678, what was the sum invested in Scheme A?
- (a)Rs. 15500 (b)Rs. 14500 (c)Rs. 16000
(d)Rs. 12500 (e)Rs. 15000
66. The speed of a boat in still water is 24kmph and the speed of the stream is 4kmph. The time taken by the boat to travel from A to B downstream is 36 minutes less than the time taken by the same boat to travel from B to C upstream. If the distance between A and B is 4 km more than the distance between B and C, what is the distance between A and B?
- (a)112 km (b)140 km (c)56 km
(d)84 km (e)28 km
67. A student finds the average of ten 2-digit numbers. While copying numbers, by mistake, he writes one number with its digits interchanged. As a result his answer is 1.8 less than the correct answer. The difference of the digits of the number, in which he made mistake, is
- (a) 2 (b) 3 (c) 4
(d) 6 (e) None of these
68. A 10 hectare field is reaped by 2 men, 3 women and 4 children together in 10 days. If working capabilities of a man, woman and child are in ratio 5 : 4 : 2, then a 16 hectare field will be reaped by 6 men, 4 women and 7 children in
- (a) 5 days (b) 6 days (c) 7 days
(d) 8 days (e)none of these
69. Rs. 6100 was partly invested in Scheme A at 10% p.a. compound interest (compounded annually) for 2 years and partly in Scheme B at 10% p.a. simple interest for 4 years. Both the schemes give equal interests. How much was invested in Scheme A ?
- (a) Rs. 3750 (b) Rs. 4500 (c) Rs. 4000
(d) Rs. 3250 (e) Rs. 5000
70. Cost of fencing a circular plot at the rate of Rs. 15 per meter is Rs. 3300. What will be the cost of flooring the plot at the rate of Rs. 100 per square meter?
- (a) Rs. 385000 (b) Rs. 220000 (c) Rs. 350000
(d) Can't be determined (e) None of these

ENGLISH LANGUAGE

Directions (71-80): Read the following passage carefully and answer the questions given below it. Certain words/ phrases are printed in bold to help you to locate them while answering some of the questions.

Apple and the United States are crying foul over the ruling in Europe that Apple received illegal tax breaks from Ireland and must hand over 13 billion euros (\$14.5 billion), a record tax penalty in Europe . But Apple and the United States have only themselves to blame for the situation.

Apple has engaged in increasingly aggressive tax avoidance for at least a decade, including **stashing** some \$100 billion in Ireland without paying taxes on much of it anywhere in the world, according to a Senate investigation in 2013. In a display of arrogance, the company seemed to believe that its arrangements in a known tax haven like Ireland would never be deemed illegal — even as European regulators cracked down in similar cases against such multinational corporations as Starbucks the German chemical giant BASF. Congress, for its

part, has sat idly by as American corporations have indulged, Amazon, Fiat and in increasingly intricate forms of tax avoidance made possible by the interplay of an outmoded corporate tax code and modern globalized finance. The biggest tax dodge in need of reform involves deferral, in which American companies can defer paying taxes on foreign-held profits until those sums are **repatriated**. Initially, deferral was a convenience for multinationals, as they sought investment opportunities abroad while lobbying Congress for tax-rate cuts in exchange for repatriating the money. Currently, there is some \$2 trillion in corporate profits in offshore tax-deferred accounts; besides Apple, Microsoft, Google, Cisco and Oracle also have large stashes. Apple is one of nearly two dozen major corporations pushing Congress for a “tax holiday,” which would let companies bring back foreign-held money over the course of a year at a discounted tax rate, rather than the current rate, 35 percent. Before the European ruling on Tuesday, the debate over a tax holiday had pitted Republicans, who have generally favored the

idea, against Democrats, who have viewed it as an unjustified reward for tax avoidance. The Democrats have history on their side. A tax holiday in 2005 lowered the corporate rate to 5.25 percent, **enticing** corporations to repatriate some \$300 billion. It was billed as a way to create jobs and increase investment, but the money was used mostly for dividend payments, share buybacks (which tend to raise executive pay) and severance for laid-off employees. **Worse**, the tax holiday inspired multinationals to stash as much money abroad as they possibly could in anticipation of another holiday.

The European ruling, however, could sharply alter the terms of the congressional debate. Republicans and Democrats alike have always assumed that foreign-held profits would one day be repatriated. The big question was the rate at which they would ultimately be taxed. Similarly, the Treasury assumes that deferred foreign profits will one day be taxed when it projects future revenues — an important measure of the nation's fiscal health. But the money won't be repatriated and taxed under American law if Europeans, in the course of enforcing their own laws against tax havens, get their hands on it first and that in the nutshell is the reason due to which the members of Congress and Treasury officials are not in favour of the Apple ruling. They understand, correctly, that tax-law enforcement in Europe could reduce the sums they expect to collect taxes on someday.

What they don't understand, or aren't saying, is that they brought the problem on themselves. The way forward is not to declare a tax war with Europe. It is for Congress to agree on a way to tax foreign-held corporate profits. President Obama put forth a reasonable approach in 2015, when he proposed a mandatory 14 percent tax on multinationals' current offshore profits — whether they are repatriated or not — and, thereafter, a new minimum tax rate of 19 percent on profits moved offshore. An even better solution would be to simply end indefinite corporate tax deferral, imposing American taxes on profits when they are made. Republicans rejected Mr. Obama's proposal in 2015, and there is no chance that lawmakers will engage in such a debate so close to the election. But the next president and Congress will need to act to ensure that at long last, American corporations pay their fair share in taxes.

71. Why deferral is the biggest taproot of global tax avoidance?

- (a) As deferral has resulted in obliterating the taxes of companies like Apple entirely.
- (b) As deferral allows them to take their business to foreign soil with less paperwork and regulations.
- (c) Since a company or an organization which is already being taxed in foreign soil is not taxed in America for the repatriation purposes.
- (d) As American companies are engineering it to shift the profits into foreign accounts.
- (e) None of these.

72. Which of the following is not true about 'tax holiday' in context of the passage?

- (a) Tax holiday was demanded by the companies on account of creating employment but the money was instead used for

their own benefits.

(b) Tax holiday encouraged the companies to move the profits to offshore tax-deferred accounts.

(c) Democrats were against the tax holiday as the companies were only able to repatriate some \$300 billion.

(d) Republicans are generally in favour of tax holiday.

(e) None of these.

73. Why members of Congress and Treasury officials are so upset about the Apple ruling?

(a) As they feel it is not justified and that it might put the hard earned money of the Americans in peril.

(b) The fear of squandering the opportunity of getting their hands on the foreign held profits.

(c) As they won't be able to further slash the taxes and the money will be taxed at the current 35% when it will be finally brought.

(d) As it will discourage the corporations in America from doing the business in Europe and thus they won't be able to repatriate the money.

(e) None of these.

74. Which of the following statement(s) is/are true in context of the passage?

(i) The new minimum tax rate after President Obama's proposal would be 14 percent.

(ii) Apple has largest share in some \$2 trillion in corporate profits in offshore tax-deferred accounts.

(iii) The tax holiday in 2005 was a success as it created jobs and increased investment.

(a) Only (i).

(b) Both (ii) and (iii).

(c) Only (iii).

(d) Both (i) and (iii). (e) None of these.

75. Why Apple and the United States should be blamed for the situation?

(a) As Apple was not made aware of the consequence of its action by the Congress which could have avoided the situation.

(b) As apple and Congress neglected all the warnings by the European authorities.

(c) For not complying with the rules and regulations of tax system in European countries.

(d) As situation is a result of arrogance of Apple and the inactiveness of the Congress to take appropriate measures.

(e) For not sorting out the difference between them on tax cut and tax holiday before the European ruling.

76. What according to the author is the best possible step that must be taken by the Congress to approach this situation?

(a) The money that is stashed should be taxed at much higher rate than the current rate of 35%.

(b) Congress must put an end to the deferral to avoid such situations in future.

(c) By accepting the proposal by Obama in which he proposed a mandatory 14 percent tax on multinationals' current offshore profits.

(d) Strict legal actions against the companies that indulge in the activities involving tax avoidance made possible by the

interplay of an outmoded corporate tax code and modern globalized finance.

(e) None of these.

Directions (77-78): Choose the word/group of words which is **MOST SIMILAR** in meaning to the word/ group of words printed in bold as used in the passage.

77. Stashing

- (a) Garner (b) Curtailment (c) Exigency
(d) Paucity (e) Scantiness

78. Enticing

- (a) Baffle (b) Hamper (c) Enchanting
(d) Chagrin (e) Embitter

Directions (79-80): Choose the word/group of words which is **MOST OPPOSITE** in meaning to the word/ group of words printed in bold as used in the passage.

79. Repatriate

- (a) Abrogation (b) Rejuvenation (c) Refurbishment
(d) Revivification (e) Instauration

80. Worse

- (a) Amateurish (b) Shoddy (c) Rotten
(d) Bewildered (e) Supercalifragilisticexpialidocious

Directions (81-85): Rearrange the following six sentences (A), (B), (C), (D) and (E) and in the proper sequence to form a meaningful paragraph, then answer the questions given below them.

- (A) The progress possible in the future is often overlooked for gains in the present.
(B) There is always a basic tension between the policy imperatives of long-term future and those of the immediate present.
(C) Planning for the future calls for proactive thinking while dealing with the present needs only reactive responses.
(D) Whether it is in matters of dealing with national security, floods and droughts, infrastructural development, clean politics and what not, the minds of our political class are fixated on the past and rarely the future.
(E) Even as leaders in developed countries are assessing the international system, our own politicians are engaged in reviving past tensions and quarrels.
(F) Formulating plans for the future needs a strong sense of values, priorities, creativity, all of which call for an intellectual equipment of a higher caliber.

81. Which of the following should be the **FOURTH** sentence after the rearrangement?

- (a) D (b) F (c) A (d) E (e) C

82. Which of the following should be the **SECOND** sentence after the rearrangement?

- (a) A (b) D (c) F (d) B (e) E

83. Which of the following should be the **FIRST** sentence after the rearrangement?

- (a) E (b) B (c) D (d) C (e) F

84. Which of the following should be the **SIXTH (LAST)** sentence after the rearrangement?

- (a) A (b) B (c) F (d) E (e) C

85. Which of the following should be the **FIFTH** sentence after the rearrangement?

- (a) E (b) D (c) B (d) C (e) F

Directions (86-90): There are two gaps in each of the following sentences. From the pairs of words given, choose the one that fills the gaps most appropriately. The first word in the pair should fill the first gap.

86. Early _____ of maladjustment to college culture is _____ by the tendency to develop friendship networks outside college which mask signals of maladjustment.

- (a) treatment, compounded (b) detection, facilitated
(c) identification, complicated (d) prevention, helped
(e) perception, disturbed

87. The British retailer, M&S, today formally _____ defeat in its attempt to _____ King's, its US subsidiary, since no potential purchasers were ready to cough up the necessary cash.

- (a) admitted, acquire (b) conceded, offload
(c) announced, dispose (d) ratified, auction
(e) denied, advance

88. Companies that try to improve employees' performance by _____ rewards encourage negative kinds of behaviour instead of _____ a genuine interest in doing the work well.

- (a) giving, seeking (b) bestowing, discouraging
(c) conferring, discrediting (d) withholding, fostering
(e) curbing, sponsoring

89. A growing number of these expert professionals _____ having to train foreigners as the students end up _____ the teachers who have to then unhappily contend with no jobs at all or new jobs with drastically reduced pay packets.

- (a) resent, replacing (b) resist, challenging
(c) welcome, assisting (d) are, supplanting
(e) allow, abetting

90. The _____ regions of Spain all have unique cultures, but the _____ views within each region make the issue of an acceptable common language of instruction an even more contentious one.

- (a) different, discrete (b) distinct, disparate
(c) divergent, distinct (d) different, competing
(e) definite, comparing

Directions (91-95): Read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. Mark the number of that part with error as your answer. If there is no error, mark (e). (Ignore errors of punctuation, if any.)

91. I have no patience (a)/ to people who (b)/ indulge in silly talk (c)/ and uncivilized behaviour. (d)/ No error (e)

92. On my request (a)/ Lalit introduced me (b)/ to his friend (c)/ who is singer and a scientist. (d)/ No error (e)

93. In spite of her craving (a)/ for hot food and soft drinks, (b)/ Sushila abstained with (c)/ them for a long duration. (d)/ No error (e)

94. There is no denying the fact (a)/ that he is one (b)/ of the best players (c)/ that has ever lived. (d)/ No error (e)

95. He paid no heed (a)/ to the charges levied against him (b)/

and proceeded to behave (c)/ in the same way. (d)/ No error (e)

Directions (96-100): In the following passage, some of the words have been left out, each of which is indicated by a number. Find the suitable word from the options given against each number and fill up the blanks with appropriate words to make the paragraph meaningful.

To emancipate woman and make her the equal of man remains an impossibility so long as the woman is shut out from socially productive labour and restricted to private domestic labour. The emancipation of woman will only be ...96... when she can take part in production on a large social ...97.... and domestic work no longer claims anything but an ...98... of her time. And only now has that become possible through modern large scale99... which does not merely permit the100.... range but positively demands.

96. (a) probable (b) easy (c) possible (d) tuff (e) credible
 97. (a) measure (b) scale (c) proportion (d) measurement (e) segment
 98. (a) important amount (b) insignificant amount (c) trivial (d) amount (e) escape
 99. (a) enterprise (b) trade (c) industry (d) business (e) production
 100. (a) use (b) employment (c) absorption (d) used (e) application

Solutions:

Direction (1-5):

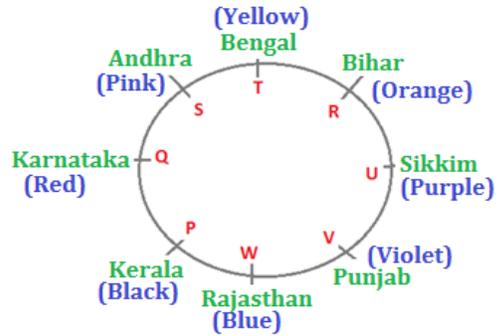
Person s	Fan of Filmstar s	Married to	Women' s	Fan of Cricketer s	Married to
A	Ranbir	S	P	Dhawan	B
B	Salman	P	Q	Rohit	E
C	Varun	R	R	Virat	C
D	Amitabh	T	S	Jadeja	A
E	Akshay	Q	T	Dhoni	D

1. (a)
 2. (c)
 3. (a)
 4. (d)
 5. (d)

Direction (6 – 10):

6. (a); (I) $H \geq R > T = L$ [True] (II) $T < R \leq H > K$ [False]
 7. (e); (I) $G \leq D < N \leq P$ [True] (II) $G < B \leq J$ [True]
 8. (b); (I) $E < I > N = P \geq S$ [False] (II) $N = R \geq S$ [True]
 9. (d); (I) $Y \geq M$ [False] (II) $S \geq Y \geq M < W > O$ [False]
 10. (a); (I) $V = Z < X = U$ [True] (II) $F \leq C \leq V = Z$ [False]

Direction (11 –15):



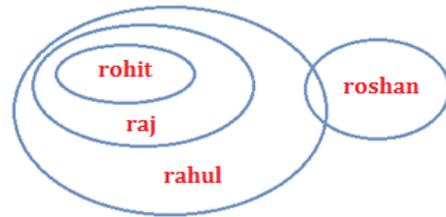
11. (e)
 12. (b)
 13. (d)
 14. (b)
 15. (e)

Direction (16-20):

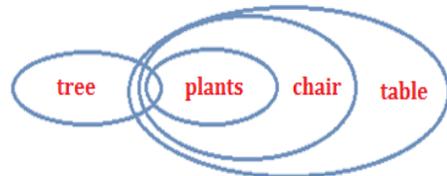
16. (e)



17. (b)



18. (e)



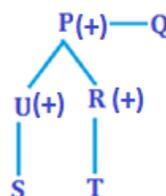
(19-20):



19. (d)

20. (b)

Direction (21-25):

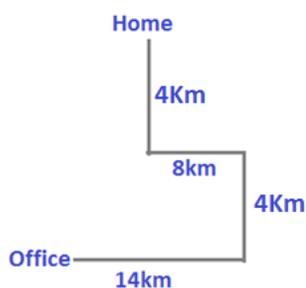


Days	Date	Friends	Exams
Monday	25 th	Q	History
Tuesday	26 th	P(+)	Hindi
Wednesday	27 th	S	Civics
Thursday	28 th	No exam	No exam
Friday	29 th	U(+)	Science
Saturday	30 th	R(+)	Polity
Sunday	31 th	T	Geography

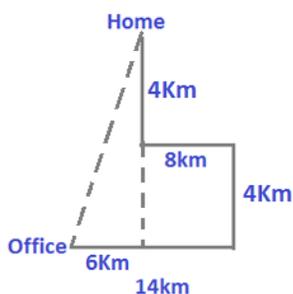
21. (d)
22. (c)
23. (e)
24. (c)
25. (b)

Direction (26-27):

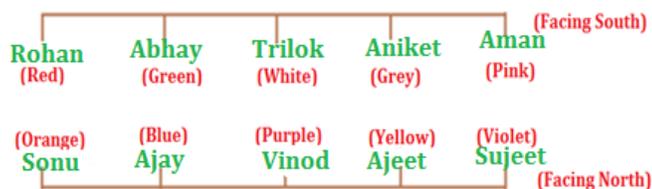
26. (d)



27. (b)



Direction (28-32):



28. (b)
29. (d)
30. (d)
31. (c)
32. (d)

Direction (33-34):

- × =Father
- =Sister
- + = mother
- ÷ = Brother

33. (c)
34. (e)

35. (c)

36. (a); Required % = $\frac{2260-1680}{1680} \times 100$
= 34.52%

37. (c); Required % = $\frac{280-150}{150} \times 100$
= 86.67%

38. (e); Male = 220
Female = 40
Required ratio = 220 : 870
= 22 : 87

39. (e); Post graduates in 2015 = 462
Required Ratio = 1570 : (840 - 462)
= 1570 : 378
= 785 : 189

40. (b); Required Ratio = $\frac{1570}{3} : \frac{1940}{3}$
= 157 : 194

41. (e); No. of qualified candidates in 2008 = $\frac{3x}{5}$
No. of female qualified from state P
= $\frac{7}{18} \times \frac{3x}{5}$
= $\frac{7x}{30}$
 $\frac{7x}{30} = 126$
 $x = 30 \times 18 = 540$

∴ Required no. of appeared candidates = 540

42. (c); Let no. of appeared candidates from state Q in 2006 = 100

Let no. of appeared candidates from state in 2007 = 200

∴ 30 + 90 → 408

1 → $\frac{408}{120}$

100 → $\frac{408}{120} \times 100 = 340$

43. (a); Required difference = $\frac{60}{100} \times 450 - \frac{43}{100} \times 600$
= 270 - 258
= 12

44. (d); Let required no. of candidates = x

∴ $\frac{28 \times 6 + 55 \times 5 + x}{3} = 210$

168 + 275 + x = 630

x = 630 - 443

x = 187

45. (c); $\frac{48 \times 7}{x} = \frac{14}{9}$
x = 24 × 9
x = 216

46. (b); x = $\frac{-4}{7}, \frac{-2}{11}$

y = $\frac{-5}{6}, \frac{-4}{7}$

∴ x ≥ y

47. (a); x = $\frac{-13}{9}, \frac{-9}{7}$

y = -3, -2.4

48. (e); x = imaginary roots
∴ no relation can be established.

49. (e); x = $\frac{9\sqrt{7}}{18}, \frac{4\sqrt{7}}{18}$
y = $\frac{\sqrt{6}}{2}, \frac{3\sqrt{6}}{32}$

∴ No relationship can be established.

50. (e); $x = 71, 11$

$y = \pm 71$

∴ No relationship can be established.

51. (b); Series is $\times 2 - 4, \times 4 - 8, \times 6 - 12, \times 8 - 16, \times 10 - 20 \dots$

52. (a); Series is $\times 3 + 1, \times 7 + 2, \times 11 + 3, \times 15 + 4 \dots$

53. (d); Series is $\times 10 - 3, \times 9 - 6, \times 8 - 9, \times 7 - 12, \times 6 - 15 \dots$

54. (c); Series is $\times 8 + 13, \times 7 + 26, \times 6 + 39, \times 5 + 52, \times 4 + 65 \dots$

55. (a); Series is $+9^3, +8^3, +7^3, +6^3, +5^3 \dots$

56. (a); $? = \frac{666}{185 \times 2.4} = 1.5$

57. (d); 719868

58. (d); $? = \frac{5376 \times 8 \times 7}{3 \times 4} = 25088$

59. (e); $(9)^3 \times (?)^2 = 1701 \times 21$

$?^2 = 49$

$? = 7$

60. (c); 216932

61. (e); $(120 - x) = \frac{4}{1}$

$120 - x = 92$

$x = 28$

Total quantity after first operation = $120 - 5$

= 115

Milk = 92

Water = 23

∴ Required Ratio = $\frac{92 - \frac{92}{115} \times 23}{23 - \frac{23}{115} \times 23 + 27}$

= $\frac{92(1 - \frac{1}{5})}{23(1 - \frac{1}{5}) + 27}$

= $\frac{92 \times 4}{23 \times 4 + 27 \times 5}$

= $\frac{368}{227}$

62. (d); Let usually S.P. = 100

After discounts price = $\frac{85}{100} \times \frac{75}{100} \times \frac{108}{100} \times 100$

= 68.85%

∴ Required % = $(100 - 68.85) = 31.15\%$

63. (b); $P - 45000 \times 12$

$Q - 54000 \times 6$

$R - 30000 \times 8$

Ratio of their profit = 45 : 27 : 20

∴ Total profit earned = $\frac{92}{45} \times 13500$

= 27600 Rs

64. (c);



At 3 : 00 PM units filled = $2 \times 5 + 4 = 14$ units

Time required to empty the reservoir = $\frac{14}{6}$ hours

= 140 minutes

= 2 hr 20 min.

∴ it will be emptied at 5 : 20 p.m.

65. (e); Let sum invested at scheme B = P

$6678 = P \left[\left(1 + \frac{10}{100} \right)^2 - 1 \right]$

$6678 = P \left(\frac{11}{10} \times \frac{11}{10} - 1 \right)$

$6678 = P \left(\frac{21}{100} \right)$

$P = \frac{6678 \times 100}{21}$

$P = 31800$

Now Let Required Sum = x

∴ $(31800 - x) = \frac{x \times 14 \times 8}{100}$

$25 \times 31800 - 25x = 28x$

$53x = 31800 \times 25$

$x = 15000$ Rs.

66. (c); Given — speed in still water = 24 kmph

speed of stream = 4 kmph

$\frac{x}{20} - \frac{x+4}{28} = \frac{36}{60}$

$\frac{7x-5x-20}{140} = \frac{3}{5}$

$2x - 20 = 84$

$2x = 104$

$x = 52$ km

∴ Distance from A to B = 56 km

67. (a); Let the two digit number = $10x + y$

∴ $10x + y - x - 10y = 1.8 \times 10$

$9x - 9y = 18$

$x - y = 2$

68. (d); Let per day work of a men, women

And child are $5x, 4x$ and $2x$

$(2 \times 5x) + (3 \times 4x) + (4 \times 2x) = \frac{1}{10}$

$x = \frac{1}{300}$

Per day work of a men = $5 \times \frac{1}{300} = \frac{1}{60}$

of a women = $\frac{1}{75}$

of a child = $\frac{1}{150}$

Per day work by 6 men, 4 women and 7 child

Together = $\frac{6}{60} + \frac{4}{75} + \frac{7}{150} = \frac{60}{300} = \frac{1}{5}$

Work will be completed in 5 days (10 hectare)

16 hectare will be reaped in = $\frac{16}{10} \times 5 = 8$ days

69. (c); Let Amount invested in Scheme A = x Rs.

Amount invested in Scheme B = $(6100 - x)$

∴ $x \left[\left(1 + \frac{10}{100} \right)^2 - 1 \right] = \frac{(6100-x) \times 10 \times 4}{100}$

$21x = 244000 - 40x$

$61x = 244000$

$x = 4000$ Rs.

70. (a); $2\pi r \times 15 = 3300$

$r = \frac{3300}{30 \times 22} \times 7$

$r = 35$ m

Area of plot = $\frac{22}{7} \times 35 \times 35 = 3850$

∴ Required Cost = $3850 \times 100 = 3,85,000$ Rs.

71. (d) Clearly in the 2nd paragraph of the passage the author has explained how the deferral system has increased the stash in offshore tax deferred accounts.
72. (c) Democrats weren't against the repatriation but they viewed deferral as an unjustified reward for tax avoidance also due to the reason that they failed to keep their promise.
73. (b) Refer to the 4th paragraph of the passage, "But the money won't be repatriated and taxed under American law if Europeans, in the course of enforcing their own laws against tax havens, get their hands on it first and that in the nutshell is the reason due to which the members of Congress and Treasury officials are not in favour of the Apple ruling."
74. (e) None of these is the correct choice. Option (i) is incorrect as the new minimum tax is 19 percent after the proposal. Option (iii) is incorrect as tax holiday wasn't a complete success as the promises were not kept. Option (ii) is also incorrect as it is not mentioned if apple has the largest stash in the deferred accounts.
75. (d) It is mentioned in the passage that Apple's ignorance due to its arrogance and congress' idleness is the possible reason for the situation.
76. (b) Refer to the last paragraph of the passage, ". An even better solution would be to simply end indefinite corporate tax deferral, imposing American taxes on profits when they are made."
77. (a) **Stashing** means store (something) safely in a secret place hence **garner** is the word most similar in meaning which means gather or collect (something, especially information or approval).
78. (c) **Enticing** means attractive or tempting; alluring hence **enchancing** is the word most similar in meaning which means delightfully charming or attractive.
79. (a) **Repatriate** means return to one's own country hence **abrogation** is the word most opposite in meaning which means repeal or abolition of a law, right, or agreement.
80. (e) **Worse** means of poorer quality or lower standard; less good or desirable hence **supercalifragilisticexpialidocious** is the word most opposite in meaning which means wonderful.
- For questions (81-85);** The correct sequence is **EDACFB**.
81. (e); C 82. (b); D 83. (a); E 84. (b); B
85. (e); F
86. (c); 'Identification, complicated' is the correct use. If you have friends outside college, they tend to mask adjustment problems with college colleagues.
87. (b); 'Conceded and Offload' is the correct use. **Conceded** means admit or agree that something is true after first denying or resisting it. **Offload** means rid oneself of (something) by selling or passing it on to someone else.
88. (d); 'withholding, fostering' is the correct use. **Withholding** – refuse to give (something that is due to or is desired by another).
- Fostering**- encourage the development of (something, especially something desirable).
Negative reinforcements foster negative behavior.
89. (a); 'Resent and replacing' is the correct use. **Resent**- feel bitterness or indignation at (a circumstance, action, or person).
90. (a); In the first blank the confusion could be between "different" and "distinct". However once you know that certain regions of Spain are unique, only then can you call them distinct, not before. Which is why the first blank can't be distinct. So the first blank should be different. Now between (a) and (d) the correct answer is (a) because discrete means distinct and so we are carrying forward the thought of difference between regions and then in the regions themselves.
91. (b) The correct preposition should be used. Note that it is patience 'with' people and not 'to' people.
92. (d) The same friend is both a singer and a scientist. So it should be 'who is a singer and scientist'.
93. (c) Incorrect preposition is used. We abstain 'from' something.
94. (d) 'Have' must replace 'has' as 'best players' are referred to.
95. (b) Changes are 'levelled' against a person, not 'levied'. S
96. (c) 97. (b) 98. (b) 99. (c) 100. (b)

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IBPS PO - MAINS 2016: PRACTICE SET

REASONING ABILITY

Direction (1-5): Read the following information and answer the questions that follow:

Seven animals Tiger, Lion, Elephant, Fox, Horse, Panda and Cheetah have been collected from different forests to Indian museum for 1 week show. These animals belong to different dangerous forest i.e. Crooked Forest, Black Forest, Rata Forest, Goblin Forest, Otzarreta Forest, Hallerbos Forest and Tsingy Forest and all seven animals have a show on different days of the week from Monday to Sunday and all these animals are national animal of different countries- America, China, India, Africa, Spain, France and Germany but not necessarily in the same order.

Elephant belongs to crooked forest but do not have a show on Tuesday. Cheetah has a show on Monday but does not belong to Rata Forest and Tsingy Forest. Panda belongs to Otazarreta Forest. The one who belongs to Crooked forest, is national animal of Spain. Lion belongs to Goblin Forest and has a show on Wednesday. Two animals have a show on the days between the days on which national animal of Spain has a show and national animal of France has a show. Fox, which is national animal of France and does not belong to Crooked Forest or Rata Forest has a show on the next day on which Horse has a show, who belongs to Hallerbos Forest. An Animal which is national animal of Africa has a show on the day just before the day on which elephant has a show and three people have a show between the days on which the America's national animal and the Germany's national animal has a show. The one who is national animal of China has a show just before the day on which the America's national animal has a show. The one who is national animal of India has a show after the day on which America's national animal has a show. The one who is national animal of india does not belong to Rata forest.

- Which of the following combinations of animal-forest-day and country is correct?
 - Cheetah-Black Forest-Wednesday-India
 - Tiger-Black Forest-Monday-America
 - Cheetah-Rata Forest - Monday-Spain
 - Cheetah-Tsingy Forest-Sunday-France
 - None of These
- On which day, the show of elephant has been observed?
 - Saturday
 - Sunday
 - Tuesday
 - Thursday
 - None of These
- Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
 - Cheetah
 - Black Forest
 - Rata Forest
 - Panda
 - Otzarreta Forest
- Which of the following animal is national animal of China?

(a) Horse (b) Fox (c) Panda

(d) Elephant (e) Cheetah

- If Cheetah is related to Goblin Forest-India in the same way as Lion is related to Otzarreta Forest-France. Following the same pattern, find out Tiger is related to which of the following?

(a) Goblin Forest-India (b) Black Forest-Africa

(c) Crooked Forest-Spain (d) Tsingy Forest-China

(e) Crooked Forest-Germany

- Direction (6-7):** Read the following passage and answer the given questions according to the passage:

The Maharashtra government's decision to promulgate an ordinance to exempt farmers from having to mandatorily sell their fruit and vegetable crop at *mandis* governed by a 1963 law on marketing farm produce is a bold and laudable step. Chief Minister Devendra Fadnavis has stood his ground against the powerful lobby of middlemen, who shut shop in protest, is even more commendable. The problem with the present regime, under which product has to be sold through Agricultural Produce Market Committees, is that farmers seldom benefit from price movements; traders rake in the upside that consumers are forced to shell out.

- Which of the following can be **concluded** from the given passage?
 - This will encourage the farmers to grow more crops.
 - Similar steps will be implemented in other states.
 - Now, the farmers will definitely get a good price for their hard work.
 - All except (i)
 - All of the above
 - All except (ii)
 - Only (i)
 - None of the above
- What are the feasible problems of the farmers which can be observed from the passage?
 - Money for their product is never given on the spot.
 - The values of product are decided by the "buyers" who are usually middleman, even if government system is involved.
 - The inputs are under the clutches of Multinational Corporations.
 - All of the above
 - All except (iii)
 - All except (ii)
 - All except (i)
 - None of the above

Direction (8-12): Read the following information and answer the questions that follow:

Seven men P, Q, R, S, T, U and V of India have decided to marry with Australian women A, B, C, D, E, F and G but not necessarily in the same order and marriage will be held according to priority wise starting from 1st to 7th. Indian men have decided to wear different apparel-Kurta-Pajama, Dhoti-Kurta, Lungi, Sherwani, Turban, Pheran and Pants-Shirts but not necessarily in the same order.

R has decided to marry with D but he is not 2nd to marry. V is top in priority but not marry with B and G. U has decided to marry with E and he is numbered 5th in priority chart. The one who has decided to marry with D has decided to wear Turban. Q has decided to marry with C and he is numbered 3rd in priority chart. Two people have decided to marry between the one who has decided to wear Turban and the one who has decided to wear Pheran in his marriage. S, who has decided to wear Pheran does not wanted to marry with D or B and decided to marry next to T, who has decided to marry with F. The one who has decided to wear Sherwani has decided to marry before R and three people have decided to marry between the one who has decided to wear Kurta-Pajama and the one who has decided to wear Pants-Shirts in his marriage. The one who has decided to wear Dhoti-Kurta has decided to marry just before the one who has decided to wear Kurta-Pajama in his marriage. The one who has decided to wear Lungi has decided to marry after the person who has decided to wear Kurta-Pajama in his marriage.

8. Which of the following combinations of Indian men-Australian women-priority and apparel is correct?
 (a) V-A-3rd-Lungi (b) P-A-1st-Dhoti-Kurta
 (c) V-B-1st-Turban (d) V-G-7th-Pheran
 (e) None of These
9. Find the priority of R in which he will be married?
 (a) 6th (b) 7th (c) 2nd
 (d) 4th (e) None of These
10. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
 (a) V (b) C (c) G
 (d) U (e) D
11. Which of the following persons has decided to wear Dhoti-Kurta?
 (a) T (b) S (c) U
 (d) R (e) V
12. If V is related to C-Lungi in the same way as Q is related to E-Pheran. Following the same pattern, find out P is related to which of the following?
 (a) C-Lungi (b) A-Sherwani (c) D-Turban
 (d) B-Kurta Pajama (e) D-Pants Shirts

Direction (13-17): Study the following information carefully and answer the questions given below.

A word arrangement Machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of rearrangement.

- Input:** rat acute 36 animal 17 mouse in basket 7 11
Step I: acute rat 36 animal 17 mouse in basket 7 11
Step II: acute 36 rat animal 17 mouse in basket 7 11
Step III: acute 36 animal rat 17 mouse in basket 7 11
Step IV: acute 36 animal 7 rat 17 mouse in basket 11
Step V: acute 36 animal 7 in rat 17 mouse basket 11
Step VI: acute 36 animal 7 in 17 rat mouse basket 11
Step VII: acute 36 animal 7 in 17 basket rat mouse 11

Step VIII: acute 36 animal 7 in 17 basket 11 rat mouse

Step IX: acute 36 animal 7 in 17 basket 11 mouse rat

Step IX is the last step.

13. If the following is the 11th step of an input what will be the Vth step?
Step II: After 89 she 38 wins 11 Olympic 22 the 7
 (a) after 89 she 7 the 22 Olympic 11 wins 38
 (b) after 89 Olympic she 38 wins 11 22 the 7
 (c) after 89 Olympic 7 she 38 the wins 11 22
 (d) after 89 Olympic 7 she 38 the 11 wins 22
 (e) None of the above
14. Which of the following is the last step for the Input 'eat 9 fast icecream 22 3 umbrella cat 5'?
 (a) cat eat 9 fast 5 icecream 22 umbrella 3
 (b) eat 22 icecream 3 umbrella 9 cat 5 fast
 (c) eat 22 umbrella 3 icecream 9 cat 5 fast
 (d) eat 22 icecream 3 umbrella 5 cat 9 fast
 (e) None of the above
15. Which step will be the last step for the Input 'expenses 17 rate over 41 27 profit 15'?
 (a) IV (b) V (c) VI
 (d) VII (e) None of these
16. Which word/number will be at 4th from the left in step V for the given input in above question?
 (a) 41 (b) profit (c) over
 (d) 15 (e) None of these
17. Which word/number will be 3rd to the right of '41' in step IV for the given input in above question?
 (a) over (b) profit (c) 15
 (d) 17 (e) None of these
18. **Statement:** Juvenile Justice (Care and Protection of Children) Act, 2015 has been passed by Parliament of India. It aims to replace the existing Indian juvenile delinquency law, Juvenile Justice (Care and Protection of Children) Act, 2000, so that juveniles in conflict with Law in the age group of 16–18, involved in Heinous Offences, can be tried as adults. The Act came into force from 15 January 2016. It was passed on 7 May 2015 by the Lok Sabha amid intense protest by several Members of Parliament. It was passed on 22 December 2015 by the Rajya Sabha. What are the possible **consequences** of the Juvenile Justice bill in India?
 (i) The bill aims to "consolidate and amend the law relating to children alleged and found to be in conflict with law and children in need of care and protection by catering to their basic needs through proper care, protection, development, treatment, social re-integration, by adopting a child-friendly approach."
 (ii) Culprit will not be spare who does heinous crimes under the edge of juvenile age (16-18).
 (a) All except (i) (b) All of the above
 (c) Both (i) and (ii) follow (d) All except (ii)
 (e) None of the above

Direction (19-23): In each question below are given three

statements followed by four conclusions numbered I, II III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given facts.

- 19. Statements:** All Anil is Saurabh.
All Saurabh is Atul. No Atul is Gaurav.
Conclusions: I. All Anil is Atul.
II. No Anil is Gaurav. III. Some Saurabh is Anil.
IV. Some Gaurav is not Anil.
(a) All follow (b) Only I, II and III follow
(c) Only I, II and IV follow (d) Only II, III and IV follow
(e) None of these
- 20. Statements:** All School is College.
No College is Institute.
All Institute is Hospital.
Conclusions: I. Some Hospital is not College.
II. All College is School.
III. Some College is not School.
IV. Some College is not Hospital.
(a) Only I follows (b) Only IV follows
(c) Only I and either II or III follow
(d) Only IV and either II or III follow
(e) None of these
- 21. Statements:** No Railway is Airlines.
Some Airlines is Bus. All Bus is bike.
Conclusions: I. Some bike is Railway.
II. Some bike is Airlines. III. Some Bike is not Railway.
IV. Some Bus are not Railway.
(a) Only either I or III, II and IV follow
(b) Only II and IV follow (c) Only I, III and IV follow
(d) Only II, III and IV follow (e) None of these
- 22. Statements:** Some woodlands are reeboks.
No reeboks are Puma. No Puma is Sparx.
Conclusions: I. Some woodlands are not Sparx.
II. Some reeboks are Sparx.
III. No reeboks are Sparx
IV. Some woodlands are not Puma.
(a) Only either II or III follows
(b) Either II or III, I and IV follow
(c) Only either II or II and I follow
(d) Only either II or III and IV follow
(e) All follow
- 23. Statements:** Some kejrival is modi.
Some kejrival is Pranab. Some Pranab is not Putin.
Conclusions: I. Some Putin is not Pranab.
II. Some Putin is Pranab.
III. Some modi is not Pranab.
IV. All modi is Pranab.
(a) None follows (b) Only I follows
(c) Only III follows (d) Only II follows
(e) None of these

Direction (24–28): Read the following passage and answer the given questions according to the passage:

Even as the reverberations of the violence inflicted on a group of Dalit men by “cow protection” vigilantes near the small Gujarat town of Una are felt in Parliament, the protests continue to spread across the State. Large parts of Saurashtra, the region rocked most by agitations led by Dalit groups, were practically shut down on Wednesday after a bandh call, and different modes of protest have been adopted. It is a protest that appears to have grown organically in response to the violence the men bore on July 11, a video of which had been posted online by one of the assailants. They were stripped, flogged, bound and paraded on accusations that they had killed a cow for skinning. It is a videographic record of both random and systemic cruelty. The various modes of protest must be seen as a cry for redressal and systemic social change all around. Some have protested by attempting suicide, and one died after consuming a poisonous substance. Certain protesters have taken to dumping animal carcasses near a district official’s office. There has been mobilization on the streets across Gujarat, with one policeman succumbing to injuries after stone-pelting by protesters. There are plans for more State-wide protests. This is a rage that needs a comprehensive and holistic response rather than a confrontationist approach relying heavily on firefighting.

- 24.** What should be the *courses of action* taken by the administration for the victims regarding the case mentioned in the above passage?
(i) The victims of the Una assault must be reassured by the authorities that their assailants are punished.
(ii) The administration must insure their safety, so that reprisals are not visited upon them.
(iii) As per the provisions of Atrocities Act, district administration should have to declare a compensation amount to the victims.
(iv) The culprits should be charged with attempted murder and should be jailed at least ten years.
(a) All of the above (b) All except (iii) (c) All except (iv)
(d) All except (i) (e) All except (ii)
- 25.** Which of the following *cannot be postulated* in contrast with the given passage?
(i) The Dalit uprising has become a rational issue now and if it is not tackled properly, it could cause a severe damage to the Gujarat governance body.
(ii) Some of the alleged attackers on the Dalits were arrested.
(iii) Dalit family was allegedly beaten up by all the people of Gau Rakshas of Una town.
(a) None of the above
(b) All except (i) (c) All except (ii)
(d) All except (iii) (e) All of the above
- 26.** Should Dalits should be beaten for skinning dead cows?
Which of the following arguments holds strong in contrast with the given passage?
(i) Yes, violence and intimidation in the name of the cow (or beef) will not be tolerated.

(ii) No, there are some authorities and departments to whom such powers are given.

- (a) Only (i) (b) Only (ii) (c) Either (i) or (ii)
(d) Neither (i) nor (ii) (e) Both (i) and (ii)

27. Which of the following is/are **not in line** in contrast with the given passage?

(i) These things are very common in a country of huge diversity and least discipline.

(ii) This whole incident has been stage-managed to discredit the government in power and the forthcoming UP elections.

(iii) The vandalism in the name of Gou Raksha in Gujarat is an utmost distressful and painful event.

- (a) All of the above (b) Only (iii) (c) Only (ii)
(d) Both (b) and (c) (e) Only (i) and (ii)

28. What may be the **possible fallouts** of this dangerous vigilantism in contrast with the given passage?

(i) The various modes of protests will cause a great loss to social and economic conditions in the state.

(ii) The center will pass a bill in the current session that those who indulge in atrocities against the Dalits will suffer life imprisonment.

- (a) Only (i) (b) Only (ii) (c) Either (i) or (ii)
(d) Neither (i) nor (ii) (e) Both (i) and (ii)

Direction (29-33): Study the following information carefully and answer the questions given below:

There are nine members in the family i.e. A, B, C, D, E, F, G, H and I. Each person is a fan of different actors viz. Johny Depp, Brad Pitt, Tom Cruise, Sylvester Stallone, Nicolas Cage, Hugh Jackman, Will Smith, Vin Diesel and Tom Hardy. The relation of A with the members is defined as Father, Mother, Brother, Sister, Wife, Daughter, Son, and Brother-in-law but not in the same order. All the family members are seated around a circular table, but not necessarily in the same order. Some of them face the centre while others face outward.

I is brother of A's daughter. A's brother is seated on the immediate right of the brother of A's sister and both of them face the same direction. I's father is a fan of Brad Pitt. H has a sister. The mother of A's son is E and sits second to the left of the married son of A's father. F's daughter-in-law is fan of Tom Hardy. A faces outward. F is a male. A's father sits third to the right of A's daughter. I sits third to the left of the mother of C, but both I and H face the same direction. A's brother and sister is fan of Tom Cruise and Johny Depp respectively. G is not father of H. In two generations, the members of the same generation are sitting immediate next to each other and face the same direction. A's father does not like Vin Diesel and Will Smith. F's grandson is fan of Sylvester Stallone. B is a female and of the same generation as of A. G sits on the immediate left of the granddaughter of A's father. The one, who is the wife of F is fan of Will Smith. A's brother-in-law is neither a fan of Vin Diesel nor Nicolas Cage. A's father doesn't sit immediate next to his children. G is facing the centre and is second to the right of A. B sits second to the left of F and faces the centre. No three

family members seated together face the same direction. F sits immediate left of A's mother.

29. How is B's husband related to A's father?

- (a) Brother (b) Father (c) Son
(d) Grandson (e) Son-in-law

30. Who sits third to the right of A's mother?

- (a) B (b) H's brother-in-law
(c) A's brother-in-law (d) E's husband
(e) Both (b) and (c)

31. Who among the following sits exactly between A and his wife?

- (a) F (b) A's sister (c) A's daughter
(d) D (e) None of these

32. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?

- (a) B (b) A (c) A's mother
(d) A's daughter (e) E

33. Which of the following persons face inside?

- (a) B, G, F and I. (b) A, G, D and I.
(c) G, D, A's father and G's wife.
(d) D, G, B and C. (e) None of these

Direction (34-38): Each of the questions below, consist a question and three statements numbered I, II and III. You have to decide whether the data provided in the statements are sufficient to answer the question. Read the three statements and Give answer

- (a) If the data in statement I and II together are sufficient to answer the question, while the data in statement III are not required to answer the question.
(b) If the data in statement I and III together are sufficient to answer the question, while the data in statement II are not required to answer the question.
(c) If the data in statement II and III are sufficient to answer the question, while the data in statement I are not required to answer the question.
(d) If the data in all three statements I, II and III together are necessary to answer the question.
(e) If the data in all the statements, I, II and III even together are not sufficient to answer the question.

34. Among eight friends A, B, C, D, P, Q, R and S, who is sitting between B and R? (it is given that all the friends are sitting around circular table facing outside the centre of the table).

Statements: I. S is seated third to the left of D, who is not near to A.

II. P is seated immediate right of D and third to the right of R, who is near to C.

III. Q is seated third to the left of A, who is second to the right of B, who is not near to C.

35. What is the code for 'RUN' in a certain code language?

Statements: I. In a certain code language 'run your business' is coded as 'lap duh pud' and 'mind your language' is coded as 'hpu dap lap'.

II. In a certain code language 'run fast and win' is coded as

'phl pud lph hap' and 'go and move ahead' is coded as 'hap pul pah lph'

III. In a certain code language 'move your legs' is coded as 'pah lap plh' and 'legs go on' is coded as 'pal plh pul'

36. Point X is in which direction with respect to J ?

Statements: I. Point S is to the west of point T, which is in south of point J. Point X is to the north of point S.

II. Point J is to the east of point V, which is the south of point T. Point X is to the south of point W.

III. Point T is to the west of point Y, which is to the north of point W.

37. Eight students A, B, C, D, E, F, G and H are sitting around a circle facing to the centre of the table. How many students are sitting between C and F ?

Statements: I. A is seated second to the right of H, who is seated third to the right of D. G is seated immediate left of F.

II. C is seated third to the right of A and is not near to E. F is seated second to the right B.

III. D is seated second to the left of E and is third to right of G. C is an immediate neighbor of H.

38. Who earns highest salary among six members in a family? (six members A, B, C, D, E and F are earning different salaries)

Statements: I. A earns more than only C and D. F earns more than B.

II. B earns less than E while D earns more than A and F.

III. C earns more than E but less than D. F earns more than two persons.

- Direction (39-43):** Study the information given below and answer the given questions.

Nine Bollywood actors P, Q, R, S, T, U, V, W and X have come to London for shoot of different movies and stay in a building. The building has nine floors and only one actors stays on one floor. Nine movies for which shoot is going on are-Tubelight, Dangal, Raees, Mirzya, Rangoon, Akira, Wazir, Jugni and Aligarh. Each actor is working with different actress, i.e. Aditi, Juhi, Nimrat, Neha, Tabu, Karishma, Sonam, Raima and Alia, but not necessarily in the same order. The ground floor is numbered 1, the floor above it is numbered 2, and so on, and the topmost floor is numbered 9.

The one who is working with Raima stays on the fourth floor. P does not work with Karishma and does not shoot for Akira and Jugni. There are three floors between the floors on which R and V stay. S stays on a floor immediately above the X's floor. The one who shoot for Wazir stays on an even numbered floor. U does not work with Alia. The one who works with Aditi stays on the topmost floor. The one who is shooting for Mirzya stays immediate below to the one who is shooting for Tubelight. U is shooting for Akira and does not stay on the ground floor. W works with Neha and stays on an even-numbered floor and he is shooting for Mirzya. T stays on the second floor and works with Nimrat. There are three people between the one who is shooting for Dangal and the one who is

shooting for Jugni. The person who is shooting for Dangal stays below the person who is working for Jugni. The one who works with Alia stays on the third floor. The one who shoots for Rangoon does not stay on sixth floor. There are two floors between the floors on which the actor working with Sonam and Neha stay. The actress in Jugni movie is Sonam. R is working with Juhi. The one who is shooting for Aligarh stays immediate above to R. There is one floor between the floors on which U and V stay. There are one floor between the floors on which actors shooting for Raees and the actor shooting for Aligarh stay. P stays on an even-numbered floor below the floor on which W stays.

39. How many floors are there between the floor on which actor shooting for Wazir and actor shooting for Rangoon stay?

(a) Three (b) Five (c) Two
(d) Six (e) Four

40. If Q is related to Tabu in the same way as U is related to Raees. Which of the following is S related to, following the same pattern?

(a) Akira (b) Karishma (c) Juhi
(d) Neha (e) Aligarh

41. Which of the following is the correct combination of the movie and the person with whom P is working?

(a) Raees-Raima (b) Dangal-Juhi (c) Wazir-Karishma
(d) Akira-Tabu (e) Wazir-Tabu

42. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?

(a) Juhi (b) Jugni (c) Akira
(d) Neha (e) Tubelight

43. If all movies are arranged in alphabetical order from top to lowest floor. Then actor who stays on fifth floor is working on which movie?

(a) Dangal (b) Raees (c) Rangoon
(d) Mirzya (e) Tubelight

44. **Statement:** The relationship between income and expenditure is the consumption schedule or consumption function in economics. When disposable income rises, consumption increases. Consumption may exceed disposable income for low-income individuals. As the disposable income increases, the average propensity to consume falls. In other words, the consumer spends a smaller percentage of the extra dollars. Consumption increases with increased income, but short-term increases affect consumption less than long-term increases. For an income increase of a year or less duration, consumers tend to change spending habits less than for permanent increases in income.

In order to reduce the gap between income and expenditure, the company has decided to increase the prices of its product from next month.

Assumptions: I. The rate will remain more or less after the increase.

II. The expenditure will more or less remain the same in near future.

III. The rival companies will also increase the price of the similar products.

You have to assume everything in the statement to be true, and then decide which of the three given assumptions logically follows.

- (a) Only I and II are implicit (b) Only II and III are implicit
(c) Only III is implicit (d) All are implicit
(e) None of these

- 45. Statement:** The life of a farmer is very tough. With no other revenue source, he has to totally depend upon the year's crop. And if it happens to fail, an entire year is lost," says, a farmer's son who comes from a very humble background. The education of the farmer's children is often the first casualty of a failed crop. A large number of students are reported to be dropping out of school in villages as their parents want their children to help them in farms.

Courses of action: I. The government should immediately launch a programme to create awareness among the farmers about the value of education.

II. The government should offer incentives to those farmers whose children remain in schools.

III. Education should be made compulsory for all children up to the age of 14 and their employment banned.

You have to assume everything in the statement to be true, and then decide which of the following three given suggested courses of action logically follows for pursuing.

- (a) Only (i) and (ii) follows (b) Only (ii) and (iii) follows
(c) Only (i) and (iii) follows. (d) All follows
(e) None of these

Direction (46-50): Read the following information and answer the questions that follow:

Ten persons A, B, C, D, E, F, G, H, I and J are sitting in two parallel rows with five persons in each row. The persons in row one are facing south and the persons in row two are facing north. Each person in row one faces a person from the other row. All of them likes different TV shows, viz American Gothic, 60 Minutes, Blue Bloods, 2Broke Girls, Brandy Bunch, Criminal Minds, Elementary, Limitless, MacGyver and Safrina and also like different colours, viz Red, Pink, Purple, Yellow, Blue, Green, Violet, Black, White and Grey, but not necessarily in the same order.

The persons who like Brandy Bunch and Criminal Minds sit opposite to each other. There is only one person between H's father and H's uncle. H likes Purple colour. The one who likes

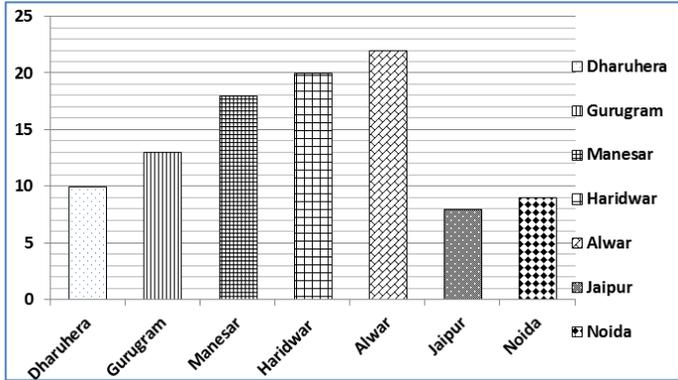
Limitless is on the immediate right of H's grandmother, who does not like Safrina. H's grandmother does not like Pink colour. E sits opposite the one who sits second to the left of the one who likes Blue Bloods. The one who likes Brandy Bunch likes White colour. J is not facing north but sits third to the left of H's mother, who likes 60 Minutes. G likes Yellow colour and sits immediate to the left of the one who likes Safrina. F sits opposite to A, who likes American Gothic. The one who likes 60 Minutes sits opposite to the one who likes Limitless. H's grandmother has three children and one daughter-in-law and one son-in-law. E is the wife of I and likes Red colour. A is the grandfather of J and H. D is the grandmother of F. E sits at one of the ends of the row and likes Criminal Minds. G is the wife of B and mother of both F and J. The persons who like Blue Bloods and 2Broke Girls respectively are not facing north. C likes Elementary and also likes black colour. The one who likes 2Broke Girls sits opposite the one who is second to the right of H's father. E's husband does not like Safrina. The one who likes Violet colour sits diagonally opposite the one who likes White colour. Persons who like Green and Blue colour face south direction. The one who likes Green colour does not face the one who likes Black colour. A does not like Grey colour. E is the sister of B and C.

- 46.** How is I related to the one, who likes American Gothic?
(a) Son (b) Daughter (c) Grandson
(d) Son-in-law (e) Daughter-in-law
- 47.** If the TV shows of F and J are interchanged, then which of the following shows does F like?
(a) Elementary (b) Brandy Bunch (c) 2Broke Girls
(d) Blue Bloods (e) None of these
- 48.** Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
(a) Purple (b) Criminal Minds (c) Violet
(d) J (e) 2Broke Girls
- 49.** If Safrina is related to Pink in the same way as Blue Bloods is related to Red. Which of the following is 60 Minutes related to, following the same pattern?
(a) Red (b) Grey (c) Pink
(d) Black (e) Violet
- 50.** Who sits diagonally opposite to G?
(a) The one who likes MacGyver
(b) The one who likes Grey colours
(c) The one who likes Pink colour
(d) The one who likes 60 Minutes
(e) Either (a) or (c)

QUANTITATIVE APTITUDE

Directions (51-55): The following bar chart shows the percentage distribution of production of bikes by Hero Honda in different plants of the company in different cities, while table shows the percentage distribution of production of different

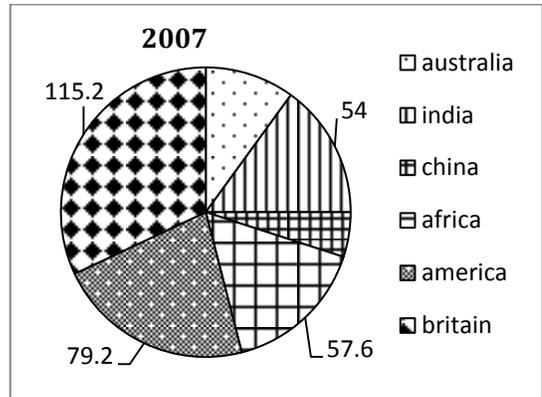
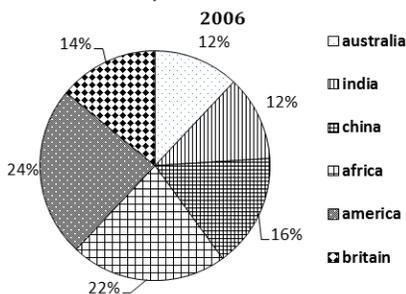
models in each plant. Study these graphs carefully and answer the following questions (Total production=78 lac)



	Model 1	Model 2	Model 3
Dharuhera	70	13	17
Gurugram	52	26	22
Manesar	32	50	18
Haridwar	30	30	40
Alwar	73	10	17
Jaipur	20	55	25
Noida	35	25	40

51. What is the respective ratio of number of model 2 bikes produced in Gurugram to the model 2 bikes in Dharuhera and Alwar together?
 (a) 161 : 175 (b) 169 : 175 (c) 171 : 175
 (d) 181 : 175 (e) None of these
52. Find the total number of model 2 bikes produced in all plants together
 (a) 22, 25, 340 (b) 22, 28, 540 (c) 24, 26, 360
 (d) 22, 24, 460 (e) None of these
53. Find the difference between total bikes produced in Alwar plant to the total production of model 2 bikes in all plants together.
 (a) 509340 (b) 540520 (c) 409560
 (d) 222620 (e) None of these
54. Model 2 bikes produced in Alwar is what percent of model 2 cars produced in Manesar ? (round of to 2 decimal places)
 (a) 21.41% (b) 22.42% (c) 23.43%
 (d) 24.44% (e) None of these
55. Find the difference between total bikes produced in Dharuhera, Gurugram and Manesar together and in Haridwar, Alwar and Jaipur together .
 (a) 708000 (b) 802000 (c) 790400
 (d) 772000 (e) None of these

Directions (56-60): A traveller spent some money in six different nations. The 1st pie chart given below shows the money spent in each of the nations as a percentage of the total money spent in 2006, the 2nd pie chart is the distribution (in degrees) of the expenditure in different countries in 2007. The money spent in China in the year 2007 was 75% less than the money spent in China in the year 2006. The money spent in India was same for the two years



56. In the year 2007, what percentage of the total money spent by the traveller was spent in China?
 (a) 8% (b) 10% (c) 12%
 (d) 5% (e) none of these
57. If the money spent by the traveller in Britain, America and Africa together was 32 dollars more in 2006 than in 2007, then how much money (in dollars) was spent by the traveller in Australia in the year 2007?
 (a) 64 (b) 72 (c) 80
 (d) 84 (e) none of these
58. Difference between money spent in Africa in two years is what percent of the difference between money spent in America in the given years?
 (a) 143.75% (b) 153.75% (c) 163.75%
 (d) 146.75% (e) none of these
59. If total money spent in Britain in both the years together is 594 dollars, then find the money spent (in dollars) in America in both the years.
 (a) 605 (b) 624 (c) 630
 (d) 650 (e) none of these
60. What is the ratio between money spent in china in 2006 to the money spent in India in 2007?
 (a) 4:5 (b) 4:1 (c) 4:3
 (d) 4:7 (e) none of these

Directions (61-65): The following table shows the sales figures of the four brands of laptops - HP, Compaq, IBM and Sony in the various regions of the world. The figures are given either in absolute numbers or as percentage of the total sales in the given regions. Assume that no other brand of laptops is present in the given regions. Based on the given table, answer the questions that follow.

	HP	Compaq	IBM	Sony
North Asia	4960	18%	14%	480
East Europe	19%	630	22%	17%
West Europe	32%	13%	19%	2160
North America	4260	9%	12%	8%
South America	5%	1260	990	20%
East Africa	225	484	517	128
West Africa	180	26%	900	2250
South Asia	450	4050	1350	35%
Australia	25%	32%	14%	754

61. What is the total number of laptops sold by IBM across all

the regions combined?

- (a) 7431 (b) 12680 (c) 8451
(d) 7831 (e) none of these

62. The ratio of laptops sold in South Asia, West Africa and East Europe is

- (a) 6 : 3 : 2 (b) 3 : 6 : 2 (c) 6 : 3 : 1
(d) 3 : 2 : 1 (e) none of these

63. Which of the following options is/are true?

I. Total sales of Laptops in South America is 3000 units.

II. Sales of IBM in East Africa is 25% more than sales of HP in West Africa.

III. The ratio of sales of Compaq in North America to the sales of the same in South America is 3 : 7.

- (a) Only I (b) I and II (c) I and III
(d) II and III (e) none of these

64. Sales of HP and Compaq in north America is what times of the Sales of HP in south America and Australia ?

- (a) 6 (b) 8 (c) 5
(d) 4.5 (e) none of these

65. Find the difference between total sale of IBM laptops and total sale of sony laptops in all regions together.

- (a) 2836 (b) 2736 (c) 2826
(d) 2876 (e) none of these

Directions (66-70): The following information is about the production of bikes by 3 different companies from Monday to Friday in a specific week. Read the information carefully and answer the following question:

The total production by 3 companies on Monday was 540 out of which $33\frac{1}{3}\%$ bikes were produced by Hero. The number of bikes produced by Bajaj on Monday are less than the bikes produced by Hero on Monday by the same extent as the number of bikes produced by Honda on Monday is more than the bikes produced by Hero on Monday. The difference between bikes produced by Bajaj and Honda on Monday is 40. 150 bikes are produced by Hero on Tuesday, which is 100 less than the bikes produced by the same company on Wednesday. A total of 910 bikes were produced by Hero from Monday to Friday. The ratio between bikes produced by Hero on Thursday to bikes produced by the same company on Friday is 5 : 6. 220 bikes were produced by Bajaj on Tuesday, which is 80 less than the bikes produced by Honda on Wednesday. A total of 570 bikes were produced on Tuesday, which is 76% of the total bikes produced on Wednesday. The number of bikes produced by Honda on Thursday is $66\frac{2}{3}\%$ more than bikes produced by Hero on the same day. Total 580 bikes were produced on Thursday. The number of bikes produced by Honda on Friday is same as that on Monday. 140 bikes were produced by Bajaj on Friday.

66. Find the ratio between total bikes produced on Monday to that on Wednesday.

- (a) 18 : 29 (b) 18 : 25 (c) 18 : 31
(d) 3 : 5 (e) None of these

67. Find the total number of bikes produced by Bajaj from Monday to Friday.

- (a) 900 (b) 980 (c) 950

- (d) 960 (e) None of these

68. Find the average number of bikes produced per day by Honda from Monday to Friday. (approximate)

- (a) 250 (b) 220 (c) 270
(d) 240 (e) 230

69. On which pair of days, the number of bikes produced by Hero is the same ?

- (a) Tuesday and Wednesday (b) Wednesday and Thursday
(c) Tuesday and Thursday (d) Monday and Wednesday
(e) Monday and Tuesday

70. On which day the total number of bikes produced was the maximum ?

- (a) Monday (b) Tuesday (c) Wednesday
(d) Thursday (e) Friday

Directions (71-75): In each of the following questions, a number series is given in which only one number is wrong. Find the number.

71. 41 48 60 78 105.3 147.42
(a) 41 (b) 48 (c) 105.3
(d) 78 (e) 60

72. 13 16 38 123 504 2535 15310
(a) 123 (b) 504 (c) 15310
(d) 38 (e) 13

73. 20 24 33 49 79 110 159
(a) 33 (b) 79 (c) 20
(d) 24 (e) 110

74. 8544 1420 280 66 48 5
(a) 1420 (b) 66 (c) 8544
(d) 48 (e) 280

75. 584 512 451 414 384 364
(a) 451 (b) 512 (c) 584
(d) 384 (e) 414

Directions (76-80): In each of the following questions, 3 statements are given, you have to determine that which statement/statements are necessary to answer the question.

76. A sum of money Rs 2550 is to be distributed among Krishna, Vijay and Ramaswami. What will be the share of Vijay?

A. Krishna's share is 1.5 times Vijay's share,

B. Ramaswami's share is half the share of Krishna and Vijay together.

C. The share of Krishna is Rs 340 more than Vijay.

(a) Either A and B together or A and C together are sufficient

(b) Only A and B together are sufficient

(c) Only A and C together are sufficient

(d) All statements are required

(e) Any 2 of the 3 statements are sufficient

77. Find the average of present ages of P, Q and R.

A. The average age of P, Q and R 15 years ago was $33\frac{1}{3}$ years.

B. The present ages of P, Q and R are in the ratio of 8 : 9 : 12.

C. The average age of P, Q and R 15 years hence is $63\frac{1}{3}$ years

(a) A and B are sufficient

(b) B and C are sufficient

- (c) Statement B and either statement A or statement C are sufficient
 (d) Either A or C is sufficient
 (e) All together are necessary
78. A, B and C secured 45%, 50% and 60% marks respectively in Biology. D's marks in Biology are 10 more than A's marks and 20 less than C's marks. Find out the overall percentage of marks taking marks of the four students together.
 A. The biology has maximum marks 200.
 B. Total of D's and A's marks is 190.
 C. C has obtained 120 marks.
 (a) A and B are sufficient
 (b) Only A is sufficient
 (c) Either A and B together or C is sufficient
 (d) All statements together are necessary
 (e) The question can't be answered even with all the 3 statements.
79. 40 students sit in rows and columns. How many students are seated in each column?
 A. The number of rows is 62.50% of the number of columns.
 B. The number of rows is $\frac{5}{8}$ of the number of columns.
 C. The number of rows is less than the number of columns.
 (a) Only A (b) C and either A or B
 (c) Only B (d) Either A or B
 (e) All the statements are required
80. What is the total number of coins in a bag containing only 50-paise and one-rupee coins?
 A. Total number of coins in the bag is equal to twice the number of 50-paise coins.
 B. If the number of 50-paise coins decreased by 50%, the bag would have Rs 62.50.
 C. If the number of one-rupee coins is decreased by 20%, the bag will have Rs 65.
 (a) A and either B or C
 (b) Any two of the 3 statements
 (c) Any 1 of the 3 statements
 (d) Only A and B together
 (e) All statements are required
81. Five persons entered the lift on the ground floor of an 8-floor apartment. Assuming that each one of them independently and with equal probability can leave the lift at any floor beginning with the first. What is the probability that all five persons are leaving the lift at different floors?
 (a) $\frac{381}{2401}$ (b) $\frac{7c_5}{5^7}$ (c) $\frac{360}{2401}$
 (d) $\frac{7c_5}{7^5}$ (e) None of these
82. There are two vessels containing the mixture of milk and water. In the first vessel the water is $\frac{2}{3}$ of the milk and in the second vessel water is just 40% of the milk. In what ratio these are required to mix to make 24 litre mixture in which the ratio of water is to milk is 1 : 2 ?
 (a) 7 : 5 (b) 4 : 7 (c) 7 : 4
 (d) 5 : 7 (e) None of these
83. A car mechanic purchased four old cars for Rs. 1 lakh. He spent total 2 lakh in the maintenance and repairing of these four cars. What is the average sale price of the rest three cars to get 50% total profit if he has already sold one of the four cars at Rs. 1.2 lakh ?
 (a) 1.5 lakh (b) 1.1 lakh (c) 1.2 lakh
 (d) 1.65 lakh (e) None of these
84. Hari Lal and Hari Prasad have equal amounts. Hari Lal invested all his amount at 10% compounded annually for 2 years and Hari Prasad invested $\frac{1}{4}$ at 10% compound interest (annually) and rest at r% per annum at simple interest for the same 2 years period. The amount received by both at the end of 2 year is same. What is the value of r ?
 (a) 14% (b) 12.5% (c) 10.5%
 (d) 11% (e) None of these
85. During our campaign against child labour we have found that in three glass making factories A, B and C there were total 33 children aged below 18 were involved. The ratio of boys to girls in A, B and C was 4 : 3, 3 : 2 and 5 : 4 respectively. If the no. of girls working in the factories B and C be equal then find the no. of girls working in factory A :
 (a) 5 (b) 2 (c) 8
 (d) 6 (e) None of these
86. Pipe A can fill an empty tank in 30 hours while B can fill it in 45 hours. Pipe A and B are opened and closed alternatively i.e., first pipe A is opened, then B, again A and then B and so on for 1 hour each time without any time lapse. In how many hours the tank will be filled if it was empty, initially ?
 (a) 36 (b) 54 (c) 48
 (d) 60 (e) None of these
87. Soniya and Priyanka started from Amethi and Bellari for Bellari and Amethi respectively, which are 645 km apart. They meet after 15 hours. After their meeting, Sonia increased her speed by 3 km/h and Priyanka reduced her speed by 3 km/h, they arrived at Bellari and Amethi respectively at the same time. What is their initial speeds ?
 (a) 24 km/h and 30 km/h (b) 25 km/h and 18 km/h
 (c) 18 km/h and 21 km/h (d) 20 km/h and 23 km/h
 (e) None of these
88. A large solid sphere of diameter 15 m is melted and recast into several small spheres of diameter 3 m. What is the percentage increase in the surface area of the smaller spheres over that of the large sphere ?
 (a) 200% (b) 400% (c) 500%
 (d) can't be determined (e) None of these
89. A bag contains 4 red and 3 black balls. A second bag contains 2 red and 4 black balls. One bag is selected at random. From the selected bag, one ball is drawn. Find the probability that the ball drawn is red.
 (a) $\frac{23}{42}$ (b) $\frac{19}{42}$ (c) $\frac{7}{32}$
 (d) $\frac{16}{39}$ (e) None of these
90. A box contains two red, three green and four blue balls. In how many ways can three balls be drawn from the box if atleast one green ball is to be included in the draw ?

- (a) 23 (b) 64 (c) 46
(d) none of these (e) 56
91. 19 person went to a hotel for a combined dinner party. 13 of them spent Rs. 79 each on their dinner and the rest spent Rs. 4 more than the average expenditure of all the 19. What was total money (in Rs) spent by them?(approximate)
(a) 1628.4 (b) 1534 (c) 1492
(d) 1496 (e) 1536.07
92. A can complete a work in 10 days, B can complete the same work in 20 days and C in 40 days. A starts working on the first day, B works for second day and C works for third day and so on. If they continued working in the same way, in how many days will the work be completed ?
(a) 15 days (b) 16.5 days (c) 15.5 days
(d) 17 days (e) None of these
93. Sapna borrowed a certain sum of money from Kavita under the following repayment scheme based on simple interest. 8% p.a. for the initial 2 years, 9.5% p.a. for the next 4 years, 11% p.a. for the next 2 years, 12% p.a. after the 8 years. Find the amount which a sum of Rs. 9,000 taken for 12 years becomes at the end of 12 years ?
(a) 20160 (b) 22350 (c) 23470
(d) 24567 (e) None of these
94. A man row $9\frac{1}{3}$ kmph in still water and finds that it takes him thrice as much time to row up than as to row down the same distance in the river. The speed of the current is (in km/hr)
(a) $3\frac{1}{3}$ (b) $3\frac{1}{9}$ (c) $4\frac{2}{3}$
(d) $4\frac{1}{2}$ (e) none of these
95. In Career Power institute, 60% of the students are boys. In a Sunday all India mock test, 80% of the girls scored more than 40 marks (out of a maximum possible 150 marks). If 60% of the total students scored more than 40 marks in the same test, find the fraction of the boys who scored 40 marks or less ?
(a) $\frac{7}{15}$ (b) $\frac{4}{15}$ (c) $\frac{7}{13}$
(d) $\frac{1}{15}$ (e) None of these
96. A shopkeeper sold an article for Rs 720 after giving 10% discount on the labelled and made 20% profit on the cost price. What would have been the percentage profit, had he not given the discount?
(a) 25% (b) 23% (c) $33\frac{1}{3}\%$
(d) 28 % (e) None of these
97. A garment company declared 12% discount for wholesale buyers. Mr Mohan bought garments from the company for Rs 8800 after getting discount. He fixed up the selling price of garments in such a way that he earned a profit of 4% on original company price. What is the approximate total selling price?
(a) Rs 10400 (b) Rs 14000 (c) Rs 10800
(d) Data inadequate (e) None of these
98. At present, Meena is eight times her daughter's age. Eight years from now, the ratio of the ages of Meena and her daughter will be 10 : 3 respectively. What is Meena's present age?
(a) 32 yr (b) 40 yr (c) 36 yr
(d) Can't be determined (e) None of these
99. The average height of 40 students is 163 cm. On a particular day, three students A, B, C were absent and the average of the remaining 37 students was found to be 162 cm. If A, B have equal heights and the height of C be 2 cm less than that of A, find the height of A.
(a) 176 cm (b) 166 cm (c) 180 cm
(d) 186 cm (e) None of these
100. In an examination the percentage of students qualified to the number of students appeared from school 'A' is 55%. In school 'B' the number of students appeared is 15% more than the students appeared from school 'A' and the number of students qualified from school 'B' is $67\frac{3}{11}\%$ more than the students qualified from school 'A'. What is the percentage of students qualified to the number of students appeared from school 'B' ?
(a) 80% (b) 85% (c) 75%
(d) 90% (e) None of these

English Language

Directions (101-110): Read the following passage carefully and answer the questions given below it. Certain words are given in bold to help you locate them while answering some of the questions.

The controversy over genetically-modified food continues **unabated** in the West. Genetic modification (GM) is the science by which the genetic material of a plant is altered, perhaps to make it more resistant to pests or killer weeds, or to enhance its nutritional value. Many food biotechnologists claim that GM will be a major contribution of science to mankind in the 21st century. On the other hand, large numbers of opponents, mainly in Europe, claim that the benefits of GM are a myth **propagated** by multinational corporations to increase their

profits, that they pose a health hazard, and have therefore called for governments to ban the sale of genetically-modified food.

The anti-GM campaign has been quite effective in Europe, with several European Union member countries imposing a virtual ban for five years over genetically-modified food imports. Since the genetically modified food industry is particularly strong in the United States of America, the controversy also constitutes another chapter in the US-Europe **skirmishes** which have become particularly acerbic after the US invasion of Iraq. To a large extent, the GM controversy has been ignored in the Indian media, although Indian biotechnologists have been quite active in GM research. Several groups of Indian

biotechnologists have been working on various issues connected with crops grown in India. One concrete achievement which has recently figured in the news is that of a team led by the former vice-chancellor of Jawaharlal Nehru University, Asis Datta—it has successfully added an extra gene to potatoes to enhance the protein content of the tuber by at least 30 percent. Not surprisingly, the new potato has been called the protato. The protato is now in its third year of field trials. It is quite likely that the GM controversy will soon hit the headlines in India since a spokesperson of the Indian Central government has recently announced that the government may use the protato in its midday meal programme for schools as early as next year.

Why should "scientific progress", with huge potential benefits to the poor and malnourished, be so controversial? The anti-GM lobby contends that pernicious propaganda has vastly exaggerated the benefits of GM and completely evaded the costs which will have to be incurred if the genetically-modified food industry is allowed to grow unchecked. In particular, they allude to different types of costs. This group contends that the most important potential cost is that the widespread distribution and growth of genetically-modified food will enable the corporate world (alias the multinational corporations—MNCs) to completely capture the food chain. A "small" group of biotech companies will patent the transferred genes as well as the technology associated with them. They will then buy up the competing seed merchants and seed-breeding centres, thereby controlling the production of food at every possible level. Independent farmers, big and small, will be completely wiped out of the food industry. At best, they will be reduced to the status of being subcontractors. This line of argument goes on to claim that the control of the food chain will be disastrous for the poor since the MNCs, guided by the profit motive, will only focus on the high-value food items demanded by the affluent. Thus, in the long run, the production of basic staples which constitute the food basket of the poor will taper off. However, this vastly overestimates the power of the MNCs. Even if the research promoted by them does focus on the high-value food items, much of biotechnology research is also funded by governments in both developing and developed countries. Indeed, the protato is a by-product of this type of research. If the protato passes the field trials, there is no reason to believe that it cannot be marketed in the global potato market. And this type of success story can be repeated with other basic food items.

The second type of cost associated with the genetically-modified food industry is environmental damage. The most common type of "genetic engineering" involves gene modification in plants designed to make them resistant to applications of weed-killers. This then enables farmers to use massive dosages of weedkillers so as to destroy or wipe out all competing varieties of plants in their fields. However, some weeds through genetically-modified pollen contamination may acquire resistance to a variety of weed-killers. The only way to

destroy these weeds is through the use of ever-stronger herbicides which are poisonous and **linger** on in the environment.

101. The author doubts the anti-GM lobby's contention that MNC control of the food chain will be disastrous for the poor because
- MNCs will focus on high-value food items.
 - MNCs are driven by the motive of profit maximization.
 - MNCs are not the only group of actors in genetically-modified food research.
 - Economic development will help the poor buy MNC-produced food.
 - None of the above.
102. Using the clues in the passage, which of the following countries would you expect to be in the forefront of the anti-GM campaign?
- USA and Spain.
 - India and Iraq.
 - Germany and France.
 - Australia and New Zealand.
 - None of the above.
103. Genetic modification makes plants more resistant to killer weeds. However, this can lead to environmental damage by
- wiping out competing varieties of plants which now fall prey to killer weeds.
 - forcing application of stronger herbicides to kill weeds which have become resistant to weak herbicides.
 - forcing application of stronger herbicides to keep the competing plants weed-free.
 - not allowing growth of any weeds, thus reducing soil fertility.
 - None of the above
104. Which of the following about the Indian media's coverage of scientific research does the passage seem to suggest?
- Indian media generally covers a subject of scientific importance when its mass application is likely.
 - Indian media's coverage of scientific research is generally dependent on MNCs' interests.
 - Indian media, in partnership with the government, is actively involved in publicizing the results of scientific research.
 - Indian media only highlights scientific research which is funded by the government.
 - None of the above
105. According to the passage, biotechnology research
- is of utility only for high value food items.
 - is funded only by multinational corporations.
 - allows multinational corporations to control the food basket of the poor.
 - is funded mainly by the government of both the rich and poor countries.
 - None of the above.
106. Which of the following statements is/are not true as per the passage?

- (i) Genetic engineering means gene modification in animals designed to make them resistant to applications of weed-killers.
 (ii) A large amount of biotechnology research is funded by World Bank in both developing and developed countries.
 (iii) Genetically modified food poses serious health concerns.
 (a) (i) only (b) Both (i) and (ii)
 (c) (iii) only (d) Both (ii) and (iii)
 (e) All (i), (ii) and (iii).

Directions (107-108): Choose the word/group of words which is **MOST SIMILAR** in meaning to the word/ group of words printed in bold as used in the passage.

107. Propagated

- (a) Squashed (b) Disseminated (c) Cloaked
 (d) Shrouded (e) Obscured

108. Skirmishes

- (a) Scrimmage (b) Argument (c) Truce
 (d) Logistics (e) Wrestle

Directions (109-110): Choose the word/group of words which is **MOST OPPOSITE** in meaning to the word/ group of words printed in bold as used in the passage.

109. Unabated

- (a) Tenacious (b) Pertinacious (c) Intermittent
 (d) Invincible (e) Perforated

110. Linger

- (a) Dawdle (b) Stagger (c) Totter
 (d) Vanish (e) Saunter

Directions (111-120): Read the following passage carefully and answer the questions given below it. Certain words are given in bold to help you locate them while answering some of the questions.

Desertification sounds too trifling a problem in the world plagued by terrorism, nuclear proliferation, ethnic conflicts, AIDS and other monstrosities, but this may prove to be a dangerous oversight as the phenomenon is fast engulfing vast swathes of land across the continents, affecting about a billion people.

June 17, for the past decade, is being commemorated as the World Day to Combat Desertification by the United Nations. Unfortunately, the day hardly receives any attention in India which faces a serious threat of desertification, according to the UNDP report. The report says about 12 per cent of India, stretching from the arid northwest to a broad semiarid zone from Punjab in the northwest to Tamil Nadu in the south, faces the grave possibility of desertification.

The problem is assuming alarming proportions, with the United Nation's Food and Agriculture Organisation (FAO) warning that one-fifth of the global population stands to bear the impact of desertification spreading its tentacles across Asia, Africa, the Americas and even parts of southern Europe.

The FAO and other UN agencies estimate that 8000 to 10000 square kilometres of desert is created every year in Central Asia alone, engulfing areas where once cattle grazed

and lakes existed.

A study, done by the Arid Forest Research Institute of India (AFRI), on the desertification in Rajasthan, reveals that the factors responsible for the phenomenon are climatic, biotic and socio-economic. The factors include high temperatures, low rainfall, high wind velocity, overgrazing, intensive cultivation, forest removal for mining and also poverty, traditions and illiteracy of the people of the region.

Vinod Sahni, a research assistant with the AFRI, says: "The main culprit is man. The **rampant** deforestation and irrational cultivation patterns are intensifying the onslaught of desertification."

The views are shared by the FAO, which adds that though global warming is to be blamed, the prime responsibility remains with the mankind which is indulging into the over-exploitation of the natural resources.

Nearly two billion hectares of land, an area about the combined size of Canada and the US, is affected worldwide by human-induced degradation of soils costing about \$40 billion a year and affecting one billion people, says the UNDP.

In neighbouring China, sand dunes have advanced to within 100 km of the capital Beijing, forcing the Chinese to launch massive forestation measures. The darker side of the problem is that once desertification has occurred, it is almost an irreversible process.

It is high time the world community devoted its attention to a burgeoning **menace** which, if left unaddressed, would wreak a havoc. After all, we have only one planet to live.

111. Why does desertification sound to be a trivial problem in comparison to other problems mentioned at the beginning of the passage?

- a) because unlike other problems desertification is an area-specific issue
 b) because there is no consensus among the countries towards combating desertification
 c) because it is a problem created by people themselves
 d) because it is a novel phenomenon as compared to other problems mentioned
 e) None of these

112. Indian should take urgent steps to combat desertification because

- a) China has already taken such measures in the past.
 b) it is the country with largest desert-prone areas in the world.
 c) a vast stretch of the country is desert-prone.
 d) it can place an example before the world in this regard.
 e) None of these

113. As per the passage, desertification is a grave threat because

- a) it is fast turning 'man's land' into 'no man's land'.
 b) there is no short-term solution for this problem.
 c) it is a malady without any cure.
 d) little research has been carried out in this field to gauge its impact.

- e) None of these
114. Which of the following is/are the contribution(s) the common man can make in checking desertification?
- (i) Indulge in plantation and forest conservation activities.
(ii) Settle in non-green areas
(iii) Take part in anti-industrialisation movement
(iv) Adopt natural and logical way of farming
- a) Only (i) and (ii) b) Only (ii) and (iii)
c) Only (iii) and (iv) d) Only (i) and (iv)
e) All of the above
115. Which of the following is 'true' in the context of the passage?
- a) Desertification has caught little attention of mankind till date.
b) India does not commemorate the World Day to Combat Desertification on 17th of June every year.
c) According to the FAO, we are witnessing continuous expansion of marshy lands across the globe.
d) Mankind is solely responsible for the problem of desertification.
e) None of these
116. Which of the following is 'false' in the context of the passage?
- a) India has not paid serious attention to the menace of desertification so far.
b) According to the FAO, the expansion of arid areas has become a continuous process in the world.
c) Mankind is mainly responsible for the problem of desertification.
d) Central Asia is the least affected by the problem of desertification.
e) None of these
117. What does the author mean when he says "Once desertification has occurred, it is almost an irreversible process"?
- a) When green pastures become deserts it is almost impossible to convert them into their old form again.
b) Nothing can improve the condition of deserts if early preventive measures is not taken.
c) There is no mechanism to check the pace of desertification at present.
d) Desertification is a process that goes on without any hindrance.
e) None of these
118. What point does the author want to highlight through this passage?
- a) Desertification can be checked only if it is seen as a global problem.
b) Desertification threatens the survival of mankind.
c) Desertification can be reversed through changed human behaviour.
d) India will pay heavy price for ignoring the problem of desertification like China.
e) None of these

Directions (119): Choose the word which is the same in meaning as the word given in bold as used in the passage.

119. MENACE

- a) intensity b) danger c) pressure
d) tragedy e) extinction

Directions (120): Choose the word which is the opposite in meaning of the word given in bold as used in the passage.

120. RAMPANT

- a) critical b) unwarranted c) restrained
d) unintended e) credible

Directions (121-125): Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

- (A) The days of whims and fads and centralisation of all powers in a few hands are nearly gone.
(B) This would also result in the creation of a congenial atmosphere where the usual tactics and tricks like spying would become a thing of the past.
(C) It makes the job more interesting and increases their motivation and sense of involvement.
(D) In order to keep pace with the quality and culture of a growing economy, we must realise that a new look at the employer-employee relationship is the crying need of the hour.
(E) Employer-employee relationships can improve a lot and the employees work better if they are 'empowered'.
(F) The policy of hiring and firing an employee on one pretext or the other should be thrown into the nearest drain.
(G) Instead, selection, promotion and other benefits should go to those who show merit, skill and aptitude for the job.
(H) One of the benefits of a well-trained and committed workforce can be the projection of the right kind of image of the organisation.

121. Which of the following should be the **SECOND** sentence after rearrangement?

- (a)A (b) B (c) C (d) D (e) G

122. Which of the following should be the **FOURTH** sentence after rearrangement?

- (a)E (b) G (c) C (d) D (e) F

123. Which of the following should be the **THIRD** sentence after rearrangement?

- (a)A (b) G (c) E (d) D (e) F

124. Which of the following should be the **FIFTH** sentence after rearrangement?

- (a)H (b) B (c) G (d) D (e) E

125. Which of the following should be the **SEVENTH (last)** sentence after rearrangement?

- (a)B (b) C (c) D (d) E (e) F

Directions (126-130) : Find out the error, if any. If there is no error, the answer is (e), i.e. No error. (Ignore the errors of punctuation, if any.)

126. The new project is (a)/ to big for (b)/ trainee to handle (c)/ on his own. (d)/ No error (e).

127. What you had said (a)/ about the employees was (b)/ found to be correct (c)/ but it could not be proved. (d)/ No error (e).
128. When you had started (a)/ the work, you should (b)/ ensure that you (c)/ concentrate on it. (d)/ No error (e).
129. If you have good (a)/ control over breathing, (b)/ you can float (c)/ on water effortlessly. (d)/ No error (e).
130. The way to the fort (a)/ was too difficult that (b)/ we could not reach (c)/ the farthest point. (d)/ No error (e).

Directions (131-135): In each of the following sentences, a part of the sentence has been italicized. Below are given alternatives to the part italicized which may improve the sentence. Choose the correct alternative. Wherever no improvement is needed choose 'No correction required' or 'No Improvement' as the answer.

131. **If he was to decide to go college**, I, for one, would recommend that he go to Yale University.
 (a) If he were to decide to go to college
 (b) Had he decided to go to college
 (c) In the event that he decide to go to college
 (d) Supposing he was to decide to go to college
 (e) No correction required
132. Although he is **able to** make political enemies with this decision, the prime minister does not mind doing it for the sake of public welfare.
 (a) liable from (b) of a mind to
 (c) acknowledging his liability to
 (d) liable to (e) No correction required
133. **Had I realized how close** I was to failing, I would not have gone to the party.
 (a) If I would have realised
 (b) Were I realized how close
 (c) When I realized how close
 (d) If I realized how close
 (e) No correction required
134. **Except for you and I, everyone brought** a present to the party.
 (a) With the exception of you and I, everyone brought
 (b) Except for you and I, everyone had brought
 (c) Except for you and me, everyone brought
 (d) Exception of you and me, everyone had brought
 (e) No correction required
135. **Being as I am a realist**, I could not accept his statement that supernatural beings had caused the disturbance.
 (a) That I am a realist (b) Being a realist
 (c) Being that I am a realist (d) Realist that I am
 (e) No change required

Directions (136- 140): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Caution prevails ahead of the**136**.... of U.S. elections, which will**137**.... filtering starting early Wednesday India time, and

on renewed doubts**138**.... Greece's political ability to push through severe fiscal**139**.... Software services exporters gain after the rupee falls to a more than 1-1/2 month low against the dollar. Infosys (INFY.NS) gains 1 percent. Cipla gains 2.8 percent, having hit earlier a record high , after posting a 61.8 percent surge in July-September**140**....

136. (a) outcome (b) cause (c) whole
 (d) circumstances (e) issue
137. (a) end (b) start (c) process
 (d) depart (e) exercise
138. (a) under (b) over (c) again
 (d) recently (e) after
139. (a) scheme (b) reforms (c) agenda
 (d) programme (e) schedule
140. (a) earnings (b) spending (c) providing
 (d) distributing (e) month

SOLUTIONS:

Direction(1-5):

Day	Animals	Forest	Country
Monday	Cheetah	Black Forest	China
Tuesday	Tiger	Rata Forest	America
Wednesday	Lion	Goblin Forest	Africa
Thursday	Elephant	Crooked Forest	Spain
Friday	Panda	Otzarreta Forest	India
Saturday	Horse	Hallerbos Forest	Germany
Sunday	Fox	Tsingy Forest	France

- (e)
- (d)
- (c)
- (e)
- (e)
- (c)

The government's decision will definitely encourage the farmers to grow more crops as they can sell their fruit and vegetable crops directly to customers. It cannot be concluded that if it is implemented in Maharashtra, it will be implemented in other states too. and if there will be direct interaction of farmer with customer irrespective of middleman price ,obviously, farmers will get good price for their product as compare to the price they were getting in the past.

- (b)

It is mention in the passage that farmers seldom benefitted from price movements and it is also given that the Chief Minister is against the powerful lobby of middleman. So, (i) and (ii) are the feasible problems of the farmers. Whereas we can't say anything about its clutching power.

Direction(8-12):

Priority	Indian Men	Australian Women	Apparel
1 st	V	A	Dhoti-Kurta
2 nd	P	B	Kurta-Pajama
3 rd	Q	C	Sherwani

4 th	R	D	Turban
5 th	U	E	Lungi
6 th	T	F	Pants-Shirts
7 th	S	G	Pheran

- 8. (e)
- 9. (d)
- 10. (e)
- 11. (e)
- 12. (e)

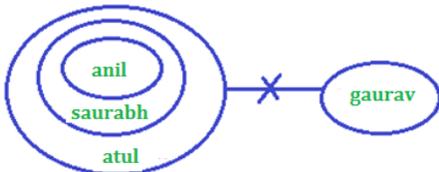
Direction(13-17):

Word arrangement machine first arranges words having first letter vowel in alphabetical order, after that words having first letter consonant will be arranged in alphabetical order. Alternately the numbers are chosen such that- greatest, lowest, 2nd greatest, 2nd lowest and so on.

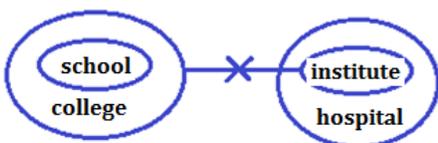
- 13. (c); Step II: After 89 she 38 wins 11 Olympic 22 the 7
Step III: After 89 Olympic she 38 wins 11 22 the 7
Step IV: After 89 Olympic 7 she 38 wins 11 22 the
Step V: After 89 Olympic 7 she 38 the wins 11 22
- 14. (b); Input : eat 9 fast icecream 22 3 umbrella cat 5
Step I: eat 22 9 fast icecream 3 umbrella cat 5
Step II: eat 22 icecream 9 fast 3 umbrella cat 5
Step III: eat 22 icecream 3 9 fast umbrella cat 5
Step IV: eat 22 icecream 3 umbrella 9 fast cat 5
Step V: eat 22 icecream 3 umbrella 9 cat fast 5
Step VI: eat 22 icecream 3 umbrella 9 cat 5 fast
- 15. (c); Input : expenses 17 rate over 41 27 profit 15
Step I: expenses 41 17 rate over 27 profit 15
Step II: expenses 41 over 17 rate 27 profit 15
Step III: expenses 41 over 15 17 rate 27 profit
Step IV: expenses 41 over 15 profit 17 rate 27
Step V: expenses 41 over 15 profit 27 17 rate
Step VI: expenses 41 over 15 profit 27 rate 17
- 16. (d)
- 17. (b)
- 18. (c) The parliament of India has passed Juvenile Justice Act. Under this act, care and protection of children is also a major issue. Statement (i) deals with care and protection of children. Statement (ii) clearly shows one of the consequences of this act. So, these both may be the possible consequences of the Juvenile Justice bill.

Direction(19-23)

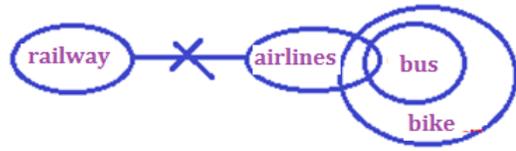
- 19. (a)



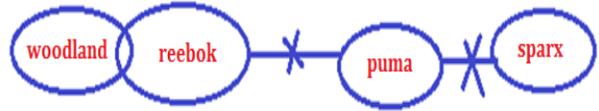
- 20. (c)



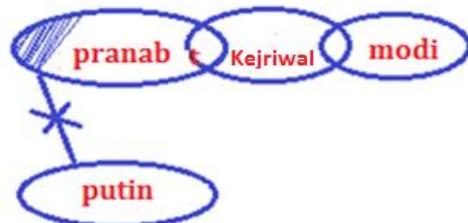
- 21. (d)



- 22. (d)



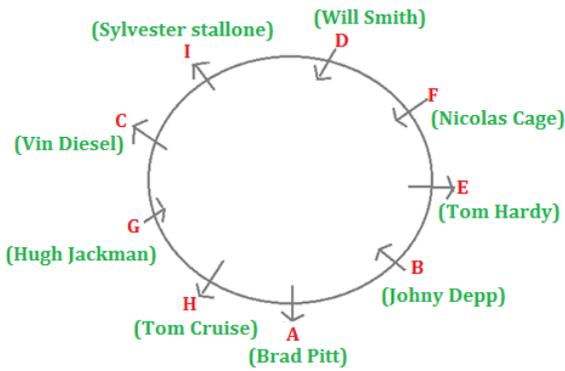
- 23. (e)



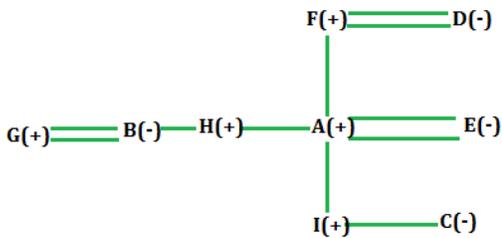
Direction (24–28):

- 24. (c) The ill-treatment meted out to the poor Dalits in Una is highly condemnable. The assailants must be punished as early as possible for whatever they did and there must be some safety issues provided to the Dalits so that further attacks should be controlled on them. And as there are certain provisions from government under which they should provide compensation. So (i), (ii) and (iii) are effective courses of action whereas (iv) is a harsh course of action.
- 25. (b) From the given passage, it is clear that there are so many protests on the streets across Gujarat and even there are plans for more state-wide protests. So, if it is not controlled properly, it would cause a severe damage. So, (i) can be postulated. Whereas it is nothing mentioned in the passage that any of the alleged attackers are arrested. And it is also clear that they are beaten by a group of people, not by the all people of Gau Raksha. So, (ii) and (iii) cannot be postulated in reference with the given passage.
- 26. (b) Argument (i) is a harsh action whereas Argument (ii) is in logical manner as there are different departments allotted for different works. So, argument (ii) holds strong.
- 27. (e) (i) and (ii) both are out of the box as we can't predict these statements logically. Whereas, from the given passage, we can easily predict that such type of violence is really a matter of concern and at the same time is a painful event. So, except (iii), all are not in line in reference with the given passage.
- 28. (a) It is mentioned in the passage that there has been mobilization on the streets across Gujarat and there are plans for such more protests. So, (i) may be the possible fallout. Whereas due to such cases, the center will not pass any bill and not going to change the law.

Direction(29-33):



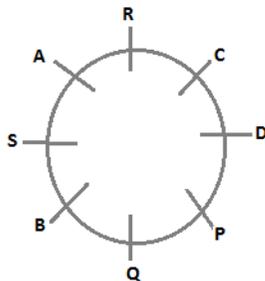
Tree Form (Blood-Relation)-



- 29. (e)
- 30. (e)
- 31. (b)
- 32. (b)
- 33. (c)

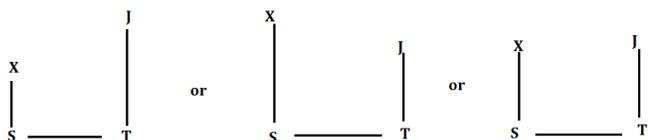
Direction(34-38):

34. (c); By using II and III statement, we can see that all persons are arranged in a circular table, so we can predict, who sits between 'B' and 'R'.

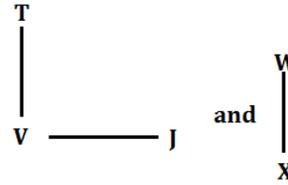


35. (a); By using I and II statement we can find the code of run. run-'pud'

36. (e)
From I,

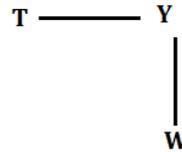


From I, we cannot predict exact direction of X with respect to J.
From II,



From II also, we cannot predict exact direction of X with respect to J.

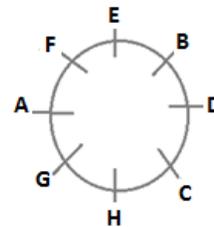
From III,



From III also, we cannot predict exact direction of X with respect to J.

So, the data in all the statements even together are not sufficient to predict the exact direction of X with respect to J.

37. (c); By using II and III statement, we can see that there are three persons sitting between C and F.



38. (c); By using II and III statement, we can see that, D earns the highest salary.

$$D > C > E > B$$

$$D > A \text{ and } F$$

Direction(39-43):

- 9 — Q — Aditi (Tubelight)
- 8 — W — Neha (Mirzya)
- 7 — U — Karishma (Akira)
- 6 — P — Tabu (Wazir)
- 5 — V — Sonam (Jugni)
- 4 — S — Raima (Raees)
- 3 — X — Alia (Rangoon)
- 2 — T — Nimrat (Aligarh)
- 1 — R — Juhi (Dangal)

39. (c)

40. (c)
 41. (e)
 42. (d)
 43. (d)
 44. (e) Clearly, the company intends to reduce the gap between income and expenditure by increasing the price of its product i.e. by keeping the expenditure unaltered and increasing the income only. So, II is implicit while I is not. However, the rival companies may or may not follow the same pursuit. So, III is not implicit.
 45. (d) Literacy at basic level is the most important need to prepare good future citizens. So, all children need to be educated. This can be achieved by creating awareness, providing incentives, enforcing education and banning employment of children. Thus, all three courses of action follow.

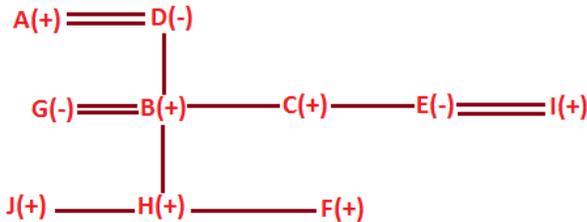
Direction(46-50):

1.



2.

Tree Form(Blood-Relation)-



46. (d)
 47. (b)
 48. (e)
 49. (d)
 50. (e)
 51. (b); Required ratio = $\frac{\frac{26}{100} \times \frac{13}{100} \times 78}{(\frac{10}{100} \times \frac{13}{100} + \frac{22}{100} \times \frac{10}{100}) \times 78} = 169 : 175$
 52. (a); Model 2 cars produced in Dharuhera plant = $\frac{10}{100} \times 78 = 1.0140 \text{ lac} = 101400$
 In Gurugram plant = $\frac{13}{100} \times \frac{26}{100} \times 78 = 2.6364 \text{ lac} = 263640$
 In Manesar plant = $\frac{18}{100} \times \frac{50}{100} \times 78 = 702000$
 In Haridwar Plant = $\frac{20}{100} \times \frac{30}{100} \times 78 = 468000$
 In Alwar Plant = $\frac{22}{100} \times \frac{10}{100} \times 78 = 171600$
 In Jaipur Plant = $\frac{8}{100} \times \frac{55}{100} \times 78 = 343200$
 In Noida Plant = $\frac{9}{100} \times \frac{25}{100} \times 78 = 175500$

Total production of model 2 bikes = 22,25,340

53. (a); Total bikes produced in Alwar = $\frac{22}{100} \times 78 = 17.16 \text{ lac}$ or 1716000
 Total model 2 bikes produced = 2225340
 Required difference = 509340
 54. (d); Required percentage = $\frac{(\frac{22}{100} \times \frac{10}{100} \times 78)}{(\frac{18}{100} \times \frac{50}{100} \times 78)} \times 100 = 24.44\%$
 55. (e); Required difference = $[(10 + 13 + 18)\% - (20 + 22 + 8)\%]$ of 78 lac = 7.02 lac = 702000
 56. (d); Let total money spent in 2006 = x
 In 2007 = y
 Money spent in India in 2006 = $\frac{12}{100}x$
 In 2007 = $\frac{54}{360}y$
 $\frac{12}{100}x = \frac{54}{360}y$
 $x = 1.25y$
 Money spent in China in 2006 = $\frac{16}{100}x$
 or $\frac{16}{100} \times 1.25y = 0.2y$
 Money spent in China in 2007 = $\frac{(100-75)}{100} \times 0.2y = 0.05y = 5\%$
 57. (a); Let total money spent in 2007 = y
 $\frac{(14+24+22)}{100} \times 1.25y - \frac{(115.2+79.2+57.6)}{360} \times y = 32$
 $y = 640 \text{ dollars}$
 Money spent in Australia in 2007 = $\frac{36}{360} \times 640 = 64 \text{ dollars}$
 58. (a); Difference between money spent in Africa = 22% of $1.25y - \frac{57.6}{360} \times y = 0.115y$
 Difference between money spent in America = 24% of $1.25y - \frac{79.2}{360} \times y = 0.08y$
 Required percentage = $\frac{0.115y}{0.08y} \times 100 = 143.75\%$
 59. (b); $\frac{14}{100} \times 1.25y + \frac{115.2}{360} \times y = 594$
 $y = 1200 \text{ dollars}$
 Money spent in America in both years = $(\frac{24}{100} \times 1.25 \times 1200) + \frac{79.2}{360} \times 1200 = 624 \text{ dollars}$
 60. (c); Required ratio = $\frac{\frac{16}{100} \times 1.25y}{\frac{54}{360} \times y} = 4 : 3$
 61. (a); Laptops sold by IBM in North asia = $\frac{14}{68} \times 5440 = 1120$
 In East Europe = $\frac{22}{42} \times 630 = 330$
 In West Europe = $\frac{19}{36} \times 2160 = 1140$
 In North America = $\frac{12}{71} \times 4260 = 720$
 In South America = 990
 In East Africa = 517
 In West Africa = 900
 In South Asia = 1350
 In Australia = $\frac{14}{29} \times 754 = 364$
 Total Laptop sold by IBM = 7431

62. (c);
 South asia : West africa : East europe
 $\frac{100}{65} \times 5850 : \frac{100}{75} \times 3330 : \frac{100}{42} \times 630$
 9000 : 4500 : 1500
 6 : 3 : 1
63. (c); **Statement I** -Total sales in South America = $\frac{100}{75} \times 2250 = 3000$
 So it is true
Statement II —Sales of HP in West Africa = 180
 Sales of IBM in East Africa = 517
 $\frac{517-180}{180} \times 100 = 187.22\%$
 so it is false
Statement III—Sales of Compaq in North America
 $= \frac{9}{71} \times 1260 = 540$
 Sales of Compaq in South America =1260
 Ratio = $\frac{540}{1260} = 3 : 7$
 So it is true.
 So I and III are true
64. (a); Sales of HP and Compaq in North America = 4260 + 540 = 4800
 Sales of HP in South America and Australia = 150 + 650 = 800
 $\frac{4800}{800} = 6$
65. (c); Total sale of IBM laptops = 7431
 Total sale of Sony laptops = 480 + 255 + 2160 + 480 + 600 + 128 + 2250 + 3150 + 754 = 10257
 Required difference = 2826

	Monda y	Tuesda y	Wednesda y	Thursda y	Frida y
Hero	180	150	250	150	180
Bajaj	160	220	200	180	140
Honda	200	200	300	250	200
	540	570	750	580	520

66. (b); $\frac{540}{750} = 18 : 25$
67. (a); Total number of bikes produced by Bajaj from Monday to Friday = 900
68. (e); Required average = $\frac{1150}{5} = 230$
69. (c); No. of bikes produced on Tuesday and Thursday is same i.e. 150
70. (c); Maximum number of bikes produced = 750 , on Thursday.
71. (a); $\times 1.2, \times 1.25, \times 1.3, \times 1.35, \dots$
 $40 \times 1.2 = 48$
 Wrong no is 41
72. (c); $\times 1+3, \times 2+6, \times 3+9, \dots$
 $2535 \times 6 + 18 = 15228$
 Wrong no is 15310
73. (b); $+2^2, +3^2, +4^2, +5^2 \dots$

- $49 + 25 = 74$
 Wrong no is 79
74. (d); $\div 6 - 4, \div 5 - 4, \div 4 - 4, \div 3 - 4, \div 2 - 4 \dots$
 $280 \div 4 - 4 = 70 - 4 = 66$
 $66 \div 3 - 4 = 22 - 4 = 18$
 Wrong no is 48
75. (a); $-(9^2 - 9), -(8^2 - 8), -(7^2 - 7), (6^2 - 6) \dots$
 $512 - (8^2 - 8)$
 $= 512 - 56$
 $= 456$
 Wrong no is 451
76. (e); St. A – K : V = 1.5
 St. B – $R = \frac{1}{2}(K + V)$
 St. C – $K = (340 + V)$
 So using any 2 of the 3 statements we can determine the share of Vijay
77. (c); St. A, P + Q + R = 145
 St. B, P : Q : R = 8 : 9 : 12
 St. C, P + Q + R = 145
 So St. B and either A or C sufficient
78. (b); difference b/w marks of A and C = 30 marks
 marks of A, B, C = 90, 100, 120
 and D = A + 10 = 100
 $A + B + C + D = 410$
 $St. A = \frac{410}{800} \times 100 = 51.25\%$
79. (d); Let there are x no. of columns
 St. I – $0.625x \times x = 40, x^2 = 64$
 $x = 8$, no. of rows = 5
 student in each column = 5
 St. II – $\frac{5}{8}x \times x = 40, x^2 = 64, x = 8$
 no. of rows = 5
 St. III – $R < C$
 So either A or B is sufficient to answer the following questions
80. (b); Let 50 paise coin = x, 1 Rs coin = y
 St. A $\rightarrow x + y = 2x, x = y$
 St. B $\rightarrow 0.5x + y = 62.5$
 St. C $\rightarrow x + 0.8y = 65$
 So using any 2 of them we can find the value of x and y
81. (c); A part on the ground floor, there are 7 floors.
 A person can leave the lift at any of the seven floors.
 Hence, total number of ways in which each of the five persons can leave the lift at any of the 7 floors = 7^5
 So, sample space = 7^5
 Five person can leave the lift at five different floor in $7p_5$ ways
 So, favourable number of ways = $7p_5$
 Hence the required probability = $\frac{7p_5}{7^5} = \frac{360}{2401}$
82. (d); Concentration of water in First vessel = $\frac{2}{5} = 40\%$
 Concentration of water in second vessel = $\frac{2}{7}$
 By allegation

$$\begin{array}{ccc} \frac{2}{7} & & \frac{2}{5} \\ & \searrow & / \\ & \frac{1}{3} & \\ & / & \searrow \\ \left(\frac{2}{5} - \frac{1}{3}\right) & : & \left(\frac{1}{3} - \frac{2}{7}\right) \\ \frac{1}{15} & : & \frac{1}{21} \\ 7 & : & 5 \end{array}$$

Therefore, ratio of first mixture to the second mixture = 5 : 7

83. (b) Total C.P. of 4 cars = 1 + 2 = 3 lakh
 Total S.P. of 4 cars = 3 × 1.5 = 4.5 lakh
 S.P. of 1 car = 1.2 lakh
 S.P. of rest 3 car = 4.5 - 1.2 = 3.3 lakh

Average S.P. of all the 3 cars = 1.1 lakh

84. (c) Let the amount invested by each be x
 According to question

$$x(1.1)^2 = \frac{1}{4}x \times (1.1)^2 + \left[\frac{3}{4}x + \frac{3x \times r \times 2}{4 \times 100}\right]$$

$$1.21 = \frac{1.21}{4} + \frac{3}{4} + \frac{3r}{200}$$

$$r = 10.5\%$$

85. (d)

	Male	:	Female
A	4x	:	3x
B	3y	:	2y
C	5z	:	4z

But $2y = 4z$

$\therefore A \Rightarrow 4x : 3x$

$B \Rightarrow 6z : 4z$

$C \Rightarrow 5z : 4z$

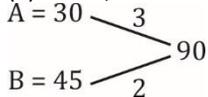
therefore $7x + 19z = 33$

but z can have only one value i.e., $z = 1$

Hence $7x + 19 = 33 \Rightarrow x = 2$

Thus the number of female children in factory A = $3x = 6$

86. (a) In 2 hr, tank will be filled by $3 + 2 = 5$ unit



Total time taken = $\frac{90}{5} = 18$

$18 \times 2 = 36$ hr

87. (d) The sum of their speeds = $\frac{645}{15}$

Notice that they are actually exchanging their speeds only then they can arrive at the same time at their respective destinations. It means the difference in speeds is 3 km/h

$x + (x + 3) = 43$

$x = 20$ and $x + 3 = 23$

88. (b) Number of spheres = $\frac{\frac{4}{3}\pi\left(\frac{15}{2}\right)^3}{\frac{4}{3}\pi\left(\frac{3}{2}\right)^3} = 125$

Surface area of large sphere = $4\pi R^2 = 4\pi\left(\frac{15}{2}\right)^2$

Surface area of small sphere = $4\pi\left(\frac{3}{2}\right)^2$

And total surface area of all the smaller spheres

= $125 \times 4\pi\left(\frac{3}{2}\right)^2 = 500 \times \pi\left(\frac{3}{2}\right)^2$

% change in area = $\left[\frac{500\pi\left(\frac{3}{2}\right)^2 - 4\pi\left(\frac{15}{2}\right)^2}{4\pi\left(\frac{15}{2}\right)^2}\right] \times 100 = 400\%$

89. (b) $\frac{1}{2} \times \frac{4}{7} + \frac{1}{2} \times \frac{2}{6}$
 = $\frac{4}{14} + \frac{2}{12} = \frac{19}{42}$

90. (b) The total number of balls in the box = $2 + 3 + 4 = 9$
 Total number of selections of 3 balls out of 9 balls = $9C_3$
 Number of selections in which no green ball is selected = $6C_3$

Required number of sections = $9C_3 - 6C_3 = 64$

91. (e) Let average expenditure of the party is x

$\therefore 13 \times 79 + 6(x + 4) = 19x$

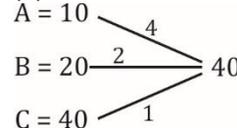
$13x = 13 \times 79 + 24$

$x = 80.84$

Total expenditure of the party = 80.84×19

= 1536.07

92. (b) Let total work = 40 unit



Work done in 3 days = $4 + 2 + 1 = 7$ unit

Work done in 3×5 (15 days) = $7 \times 5 = 35$ unit

Work left = $40 - 35 = 5$ unit

On 16th day, work 4 unit of work will be done by A.

Now work left = $5 - 4 = 1$ unit

On 17th day its B turn

1 unit of work done by B in $\frac{1}{2}$ days

Total days = $16 + \frac{1}{2} = 16.5$

93. (a); The S.I. obtained after 12 years would be = $\frac{9000 \times 8 \times 2}{100} \times \frac{9000 \times 9.5 \times 4}{100} + \frac{9000 \times 11 \times 2}{100} \times \frac{9000 \times 12 \times 4}{100}$
 = 11160

Amount = P + S.I.

= 9000 + 11160

= 20160

94. (c) Given $x = \frac{28}{3}$ km/h, speed of current = y km/h

$\frac{d}{\frac{28}{3} - y} = \frac{3d}{\frac{28}{3} + y} \Rightarrow \frac{28}{3} + y = 28 - 3y$

$y = 4\frac{2}{3}$ km/h

95. (e) Let the total number of students be y .

Then, number of boys = $\frac{3y}{5}$, Number of girls = $\frac{2y}{5}$

Number of girls scoring more than 40 marks.

= $\frac{4}{5} \times \frac{2y}{5} = \frac{8y}{25}$

Total number of students scoring more than 40 marks = $\frac{3y}{5}$

\therefore Required fraction = $\frac{7}{25} \times \frac{5}{3} = \frac{7}{15}$

Hence, fraction of the boys who scored 40 marks or less is

= $1 - \frac{7}{15} = \frac{8}{15}$

96. (c); $MP = \frac{100}{(100-10)} \times 720 = 800$ Rs
 $CP = 720 \times \frac{100}{120} = 600$ Rs
 Profit percent = $\frac{200}{600} \times 100 = 33\frac{1}{3}\%$
97. (a); Original company price = $\frac{100}{88} \times 8800 =$ Rs 10000
 SP to have 4% profit = $\frac{104}{100} \times 10000 = 10400$ Rs
98. (a); Let Meena's age = $8x$
 Her daughter's age = x
 $\therefore \frac{8x+8}{x+8} = \frac{10}{3}$
 $24x + 24 = 10x + 80$
 $14x = 56$
 $x = 4$
 \therefore Meena's present age = $8x = 32$ yr
99. (a); $A + B + C = 526$
 $x + x + x - 2 = 526$
 $x = 176$ cm
- 100.(a); Let no. of student appeared form A = 100, qualified = 55
 no. of student appeared from B = 115, qualified = 92
 required percentage = $\frac{92}{115} \times 100 = 80\%$
- 101.(e); Refer to third paragraph of the passage "This group contends that the most important potential cost is that the widespread distribution and growth of genetically-modified food will enable the corporate world (alias the multinational corporations—MNCs) to completely capture the food chain." Thus it can be concluded that all the options incorrect.
- 102.(c); The author says "The anti-GM campaign has been quite effective in Europe". Since, Germany and France both are the part of Europe so, option (c) is correct.
- 103.(c); As per the passage some weeds through genetically-modified pollen contamination may acquire resistance to a variety of weed-killers. The only way to destroy these weeds is through the use of ever-stronger herbicides which are poisonous and linger on in the environment. All this causes damage to the environment. This makes option (b) correct.
- 104.(a); It is mentioned in the passage that "It is quite likely that the GM controversy will soon hit the headlines in India since a spokesperson of the Indian Central government has recently announced that the government may use the protato in its midday meal programme for schools as early as next year." Thus it can be concluded that Indian media generally covers a subject of scientific importance when its mass application is likely. Thus option (a) is correct.
- 105.(d); It is mentioned in the passage that much of biotechnology research is also funded by governments in both developing and developed countries. Thus option (d) is correct.
- 106.(b); Gene modification in plants (not in animals) is designed to make them resistant to application of weed killers. Thus statement (i) is incorrect.
- It has been mentioned in the passage that "A large amount of biotechnology research is funded by the government and not by the world bank in both developing and developed countries." Thus statement (ii) is incorrect.
- Statement (iii) is correct as per the passage. Hence, option (b) is correct.
- 107.(b); **Propagated** means spread and promote (an idea, theory, etc.) widely. So, disseminated is the word which is similar in meaning to it.
- 108.(a); **Skirmishes** means an episode of irregular or unpremeditated fighting, especially between small or outlying parts of armies or fleets. So, Scrimmage is the word which is similar in meaning to it.
- 109.(c); **Unabated** means without any reduction in intensity or strength. So, intermittent is the word which is opposite in meaning to it.
- 110.(d); **Linger** means stay in a place longer than necessary because of a reluctance to leave. So, vanish is the word which is opposite in meaning to it.
- 111.(e); The statement '.....Amidst the host of problems like terrorism, nuclear proliferation, ethnic conflicts, AIDS etc, that have plagued the world, we tend to overlook desertification as a small problem and also it gets less attention....' suggests that among the problems mentioned at the beginning of the passage, that directly affect humans, the problem of desertification gets overlooked and is therefore not given proper attention. Hence, (e) is the correct option.
- 112.(c); The statement 'India which faces a serious threat of desertification, according to the UNDP report.' given in the second paragraph supports the answer. (a) and (d) are not suitable justification for this. (d) is not given in the paragraph. Hence, (c) is the correct answer.
- 113.(e); The statement 'the phenomenon is fast engulfing vast swathes of land across the continents, affecting about a billion people.' suggests that the problems given at the beginning of the passage are ,to some extent, area specific and confined to a limited number of people. But the problem of desertification is going to affect a large number of people .Other options can't be inferred on the basis of reading of the passage. Hence (e) is the correct option.
- 114.(d); In paragraph 6, author says that "The main culprit is man. The **rampant** deforestation and irrational cultivation patterns are intensifying the onslaught of desertification." declaring 'deforestation' and 'irrational cultivation patterns' as the main cause of desertification, and (i) and (iv) give the solutions to the given problems. Hence (d) is the correct option.
- 115.(a); The usage of the word 'oversight' suggests that option (a) is true.

In paragraph 2, the usage of the clause 'the day hardly receives any attention in India' suggests that the World Day to Combat Desertification does not get much attention in India. Although it cannot be inferred that the day is not at all commemorated in India. Therefore, option (b) is not true.

In paragraph 3, it is specifically given that 'one-fifth of the global population stands to bear the impact of desertification'. Hence option (c) is also not true.

In paragraph 5 it is clearly mentioned that 'the factors responsible for the phenomenon are climatic, biotic and socio-economic.'. Hence option (d) is also not true.

Hence (a) is the correct option.

116.(d); In paragraph 1, the usage of the word 'oversight' suggests that option (a) is true.

In paragraph 4, the statement '.....UN agencies estimate that 8000 to 10000 square kilometers of desert is created every year....' suggests that option (b) is also true.

In paragraph 6, it is clearly mentioned that 'The main culprit is man. The rampant deforestation and irrational cultivation patterns.....' hence option (c) is also true.

For option (d), No such conclusion can be made on the basis of the given passage. Hence this statement cannot be inferred as true. Hence, option (d) is false.

117.(a); By the statement 'Once desertification has occurred, it is almost an irreversible process', author wants to say that 'When green pastures become deserts it is almost impossible to convert them into their old form again'. Option (b), (c) and (d) cannot be inferred from the given statement.

118.(b); The author has repeatedly quoted 'desertification' as a 'threat' throughout the passage, so, we option (b) highlights the central idea which the author wants to convey.

For other options, the statement 'Once desertification has occurred, it is almost an irreversible process' suggests that option (c) is not correct. Option (a) and (d) cannot be inferred from the passage.

119.(b); **MENACE** means a person or thing that is likely to cause harm; a threat or danger. So, 'danger' is the word which is similar in meaning to it.

120.(c); **RAMPANT** means flourishing or spreading unchecked. So, 'restrained' is the word which is opposite in meaning to it.

For questions (121-125); The correct sequence is DAFGHBE.

121.(a); A

122.(b); G

123.(e); F

124.(a); H

125.(d); E

126.(b); Use 'too' in place of 'to' because the structure is [Too+adjective+to+V].

127.(c) When the verb 'found' is followed by an adjective, 'to be' is not used before the adjective. E.g. They were found safe and well. So, the sentence should be like **found correct**

128.(a) The tense of the sentence is 'Present', so replace 'had started' with 'start'.

129.(e) No error

130.(b) Replace 'too' with 'so'. [**So** **that**' **Too** **to**]
E.g. He is so weak that he cannot walk=He is too weak to walk.

131.(a) Though both 'were' and 'was' can be used here, it must be noted that 'were' is more likely in format English and 'were' is more usual in the advice form. 'Were' is more usual in the advice form. 'Were' is also more usual in the infinitive construction, e.g., 'If she were to apply for the job, she'd get it.'

132.(d) 'Liable to' means 'subject to' an obligation or exposed to a possibility or risk ('likely to'). Don't mark (a) in a hurry just because you recognized 'liable' to be the correct term; the preposition following it should also be correct.

133.(e) No correction required

134.(e) No correction required

135.(b) Option (d) is wrong, but it would be correct if it were 'A realist that I am'.

136.(a)

137.(b)

138.(b)

139.(b)

140.(a)

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Directions (1-5): Study the following information carefully and answer the given questions.

A, B, C, D, E, F, G and H are sitting around a circle facing the centre but not necessarily in the same order.

B sits second to left of H's husband. No female is an immediate neighbor of B. D's daughter sits second to the right of F. F is the sister of G. F is not an immediate neighbour of H's husband.

Only one person sits between A and F. A is the father of G. H's brother D sits to the immediate left of H's mother. Only one person sits between H's mother and E. Only one person sits between H and G. G is the mother of C. G is not an immediate neighbour of E.

- What is position of A with respect to his mother-in-law?
(a) Immediate left (b) Third to the right
(c) Third to the left (d) Second to the right
(e) Fourth to the left
- Who amongst the following is D's daughter?
(a) B (b) C (c) E
(d) G (e) H
- What is the position of A with respect of his grandchild?
(a) Immediate right (b) Third to the right
(c) Third to the left (d) Second to the left
(e) Fourth to the left
- How many people sit between G and her uncle?
(a) One (b) Two (c) Three
(d) Four (e) More than Four
- Four of the following five are alike in a certain way based on the given information and so form a group. Which is the one that does not belong to that group?
(a) F (b) C (c) E
(d) H (e) G

Directions (6-10): In each of the following question below are given four statements followed by three Conclusions I, II and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

- Statements:** All chillies are garlies.
Some garlies are onions. All onions are potatoes.
No potato is ginger.
Conclusions: I. No onion is ginger.
II. At least some garlies are potatoes.
III. Some chillies are definitely potatoes.
(a) Only I follows (b) Only II follows
(c) I and II follow (d) I and III follow (e) All of these
- Statements:** Some keys are locks.
Some locks are numbers. All numbers are letters.
All letters are words.
Conclusions: I. At least some locks are letters.
II. Some words are definitely not numbers.
III. All numbers being words is a possibility.
(a) Only I follows (b) II and III follow
(c) I and III follow (d) I and either II or III follow
(e) All of these
- Statements:** Some windows are doors.

All doors are walls. No wall is roof.

All roofs are shelters.

Conclusions: I. Some windows are definitely walls.

II. No walls is shelter.

III. All doors are not shelter.

- (a) None follows (b) II and III follow
(c) I and III follow (d) Only I follows (e) None of these

- Statements:** All bottles are jars.

Some jars are pots. All pots are taps.

No tap is tank.

Conclusions: I. No pot is tank.

II. At least some jars are tanks.

III. Some taps being pots is a possibility.

- (a) I and III follow (b) I and II follow
(c) II and III follow (d) All follow (e) None of these

- Statements:** Some fishes are crocodiles.

Some crocodiles are snakes.

No snake is tortoise.

All tortoises are frogs.

Conclusions:

I. No snake is frog.

II. Some snakes are definitely fishes.

III. At least some fish are frogs.

- (a) None follows (b) I and II follow
(c) II and III follow (d) I and III follow (e) None of these

Directions (11-12): Study the following information carefully and answer the questions given below it.

Point A is 5 m towards the West of Point B. Point C is 2 m towards the North of Point B. Point D is 3 m towards the East of Point C. Point E is 2 m towards the South of Point D.

- If a person walks 2 m towards the North from Point A, takes a right turn and continues to walk, which of the following points would he reach the first?
(a) D (b) B (c) E
(d) C (e) Can't be determined
- Which of the following points are in a straight line?
(a) ABE (b) DCA (c) CED
(d) BDA (e) ACE

Directions (13-17): Study the following information and answer the questions given below it.

Seven representatives of company namely Samir, Nita, Richa, Shweta, Gifty, Paul and Mohit travelled to three different countries, i.e., South Africa, Australia and France. Each of them travelled on different days of the week (no two persons travelled on the same day), starting on Monday and ending on Sunday. Minimum two people travelled to each country and South Africa is the only country to which three people travelled. Samir travelled to South Africa on Monday. Paul travelled to Australia but neither on Tuesday nor on Saturday. Mohit travelled on Sunday but not to France. The one who travelled to Australia travelled on Tuesday and the one who travelled to France travelled on Saturday. Gifty travelled on Wednesday. Richa travelled to South Africa but not on Thursday. Nita did not travel to France.

- If everyone's trip is postponed by one day, who will be

travelling on Wednesday?

- (a) Paul (b) Richa (c) Nita
(d) Gifty (e) None of these

14. Who is the representative travelled on Saturday?
(a) Shweta (b) Nita (c) Richa
(d) Can't be determined (e) None of these
15. Which of the following combinations is true according to the given information?
(a) Paul — Thursday — South Africa
(b) Shweta—Wednesday—France
(c) Mohit—Monday—South Africa
(d) Richa—Friday—Australia (e) None of the above
16. To which country and on which day did Nita travel?
(a) Wednesday, South Africa (b) Friday, Australia
(c) Thursday, Australia (d) Tuesday, Australia
(e) None of these
17. Who was the last but one to travel?
(a) Samir (b) Richa (c) Mohit
(d) Shweta (e) None of these

Directions (18-19): Read the following information carefully and answer the questions which follow.

If 'A × B' means 'A is son of B'.
If 'A + B' means 'A is daughter of B'.
If 'A ÷ B' means 'A is wife of B'.
If 'A - B' means 'A is father of B'.

18. What will come in the place of the question mark (?) to establish that Q is mother of N is the expression 'N + O - P? Q'?
- (a) + (b) × (c) -
(d) ÷ (e) Either (a) or (b)
19. Which of the following relations are true based upon the relations given in the equation 'S ÷ T × V - W + Y'?
- (a) T is brother of Y (b) S is daughter-in-law of W
(c) S is daughter-in-law of Y (d) Y is daughter of V
(e) None of these

Directions (20-24): In these questions, relationships between different elements are shown in the statements. These statements are followed by two conclusions. Give answer-

- (a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or conclusion II follows
(d) If neither conclusion I nor conclusion II follows
(e) If both conclusions I and II follow

20. Statements: $A > L = T < R \leq H > K$
Conclusions: I. $H > L$ II. $K > T$
21. Statements: $P \geq N > D \geq G < B \leq J$
Conclusions: I. $G < P$ II. $G < J$
22. Statement: $Q \leq E < I > N = R \geq S$
Conclusions: I. $E \geq S$ II. $S \leq N$
23. Statement: $R = S \geq Y \geq M < W > O$
Conclusions: I. $Y < M$ II. $O > S$
24. Statement: $F \leq C \leq V = Z < X = U$
Conclusions: I. $V < U$ II. $Z < F$

Directions (25-29): Study the following information carefully to answer these questions.

Seven executives A, B, C, D, E, F and G from a company have to visit seven different places Ahmedabad, Kolkata, Delhi, Chennai,

Hyderabad, Bengaluru and Jaipur to market their newly launched product. The order of persons and cities may not be necessarily the same. Each one flies by a different airline Spice jet, Kingfisher, Sahara, Jet, Air Deccan, Indian Airlines, Air India, but not necessary in the same order.

C goes to Kolkata but not by Sahara or Jet Airlines. D flies by Air India to Bengaluru. The one who goes to Jaipur does not travel by Air Deccan or Sahara. E travels by Air Deccan. A does not go to Ahmedabad. F goes to Hyderabad by Spice jet. B goes to Chennai by Kingfisher. E does not go to Ahmedabad. G does not go the Jaipur.

25. Who travels by Sahara Airlines?
(a) A (b) C (c) G
(d) Can't be determined (e) None of these
26. Who goes to Jaipur?
(a) A (b) E (c) G
(d) D (e) None of these
27. The one who travels by Air Deccan, visits which place?
(a) Ahmedabad (b) Delhi (c) Chennai
(d) Bengaluru (e) None of these
28. C visits 'Kolkata' by which airlines?
(a) Jet Airlines (b) Air lines (c) Indian Airlines
(d) Spice jet (e) Sahara
29. Which of the following combination is correct?
(a) A-Chennai-Kingfisher (b) C-Bengaluru-Air India
(c) G-Ahmedabad-Sahara (d) E-Delhi-Spicejet
(e) B-Chennai-Jet Airlines

Directions (30-34): Study the following information carefully to answer the given questions.

In a certain code
'lend me money' is written as 've ka ro'.
'money for him' is written as 'se ve di'.
'for various matters' is written as 'ba di la' and
'matters to me' is written as 'ro ba yo'

30. What is the code for 'various'?
- (a) ba (b) di (c) la
(d) yo (e) Cannot be determined
31. What does code 'ro' stand for?
(a) me (b) matters (c) money
(d) lend (e) Either 'to' or 'lend'
32. Which of the following may represent 'money matters most'?
- (a) ve ba yo (b) ve se ba (c) ba zi di
(d) ba ka zi (e) ba fe ve
33. What is the code for 'lend'?
- (a) ve (b) ka (c) ro
(d) di (e) Either 'di' or 'ro'
34. What is the code for 'to'?
- (a) ba (b) ro (c) yo
(d) se (e) Cannot be determined
35. How many meaningful English words can be made with the letters DLEI using each letter only once in each word?
- (a) None (b) One (c) Two
(d) Three (e) More than three

Directions (36-40): Study the given information carefully and answer the given questions.

Ten people are sitting in two parallel rows containing five

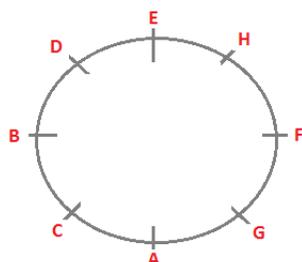
people each, in such a way that there is an equal distance between adjacent persons. In Row-1- J, K, L, M and N are seated (not necessarily in the same order) and all of them are facing south. In Row-2-V, W, X, Y and Z are seated (not necessarily in the same order) and all of them are facing north. Therefore, in the given seated arrangement each member seated in a row faces another member of the other row. Z sits third to the right of W. V sits second to the left of Z. The persons facing V sits to the immediate right of K. Only one person sits between K and M. J is not an immediate neighbour of K. Only two people sit between J and L. Neither K nor J faces Y.

36. Who amongst the following facing N?
 (a) Y (b) Z (c) V
 (d) X (e) W
37. Which of the following statements is true regarding M?
 (a) M faces one of the immediate neighbours of X.

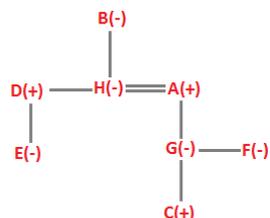
- (b) K is one of the immediate neighbours of M.
 (c) None of the given statements is true.
 (d) L sits to the immediate right of M.
 (e) Only one person sits between M and N.
38. Who amongst the following is facing X?
 (a) K (b) L (c) M
 (d) J (e) N
39. What is the position of Z with respect to Y?
 (a) Third to the right (b) Second to the right
 (c) Immediate left (d) Immediate right
 (e) Second to the left
40. Four of the given five are alike in a certain way based on the given arrangement and hence form a group. Which of them does not belong to that group?
 (a) M (b) J (c) N
 (d) W (e) Y

Solutions:

Directions (1-5):



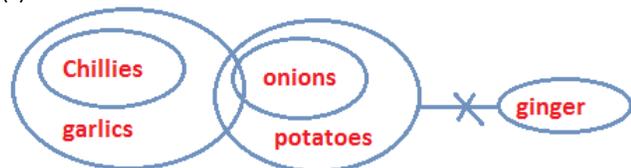
TREE FORM-



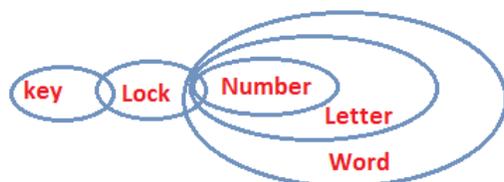
1. (d)
 2. (c)
 3. (a)
 4. (c)
 5. (b)

Directions (6-10):

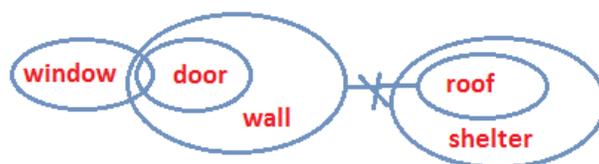
6. (c)



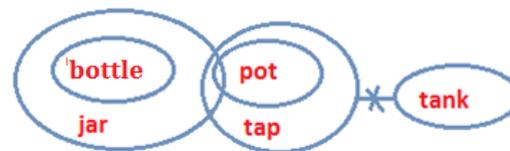
7. (a)



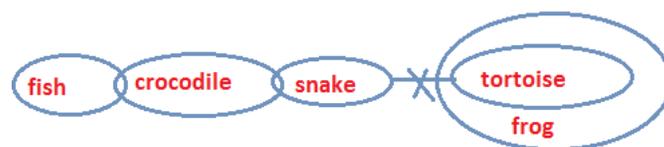
8. (d)



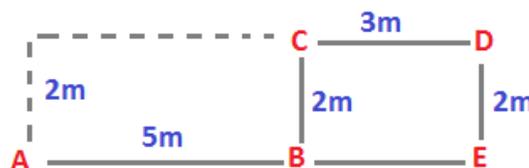
9. (e)



10. (a)



Directions (11-12):



11. (d)
 12. (a)

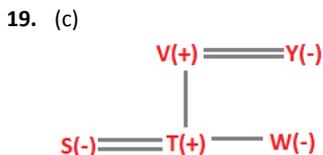
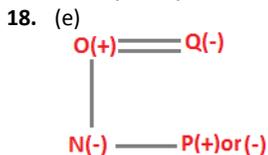
Directions (13-17):

Day	Representative	Country
Monday	Samir	South Africa
Tuesday	Nita	Australia
Wednesday	Gifty	France
Thursday	Paul	Australia
Friday	Richa	South Africa
Saturday	Shweta	France
Sunday	Mohit	South Africa

13. (c)
 14. (a)
 15. (e)

16. (d)
17. (d)

Directions (18-19):



Directions (20-24):

20. (a); (I) $H > L$ [True] (II) $K > T$ [False]
 21. (e); (I) $G < P$ [True] (II) $G < J$ [True]
 22. (b); (I) $E \geq S$ [False] (III) $S \leq N$ [True]
 23. (d); (I) $Y < M$ [False] (IV) $O > S$ [False]
 24. (a); (I) $V < U$ [True] (V) $Z < F$ [False]

Directions (25-29):

Person	Place	Airline
A	Jaipur	Jet
B	Chennai	Kingfisher
C	Kolkata	Indian Airline
D	Bengaluru	Air India
E	Delhi	Air Deccan
F	Hyderabad	Spice Jet
G	Ahmedabad	Sahara

25. (c)
26. (a)

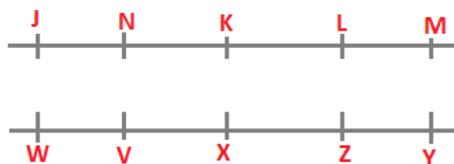
27. (b)
28. (c)
29. (c)

Directions (30-34):

WORD	CODE
money	ve
me	ro
matters	ba
to	yo
for	di
him	se
various	la
lend	ka

30. (c)
31. (a)
32. (e)
33. (b)
34. (c)
35. (b)

Directions (36-40):



36. (c)
37. (d)
38. (a)
39. (c)
40. (c)

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