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# COMPETITION POWER

Your Guide to Government Jobs & All other Competitive Exams



## What's There

G.K. Hindu Review: March  
Current Affairs Zinger Feb.

Handy Notes :

- Algebra
- Gerunds & Infinitives
- Prepositions
- Course of Action
- Monetary Policy of RBI
- Vocab Corner
- Storage Devices (Computers)
- Rajya Sabha | Lok Sabha
- GK Tricky Notes
- Twisted Ones
- SSC CGL 2016 Practice Set
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- SBI PRELIMS Practice Paper
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- ➔ Isro's PSLV-C32 Places India's Sixth Navigation Satellite IRNSS-1F in Orbit
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- ➔ Vinod Rai Appointed Chairman Of Newly Constituted Banks Board Bureau(BBB)
- ➔ 10th Asian Film Awards 2016 concluded: 'The Assassin' Dominates with Eight Awards

## Content Partners

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## From the Editor's Desk

Dear Readers,

Bankers Adda in collaboration with Career Power brings to you Competition Power. 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 **March** but also for the month of **February** 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 **SBI Prelims, IBPS and SSC CGL 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 3 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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SSC CPO 2016 Paper held on 20<sup>th</sup> March

IBPS Practice Paper | Computer Practice Set

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www.careerpower.in

## The Goal: Giving Direction and Wings to Our Life!!

Dear Readers, before we go any further, let's share a small story with you..

**One day a son came to his father for an advice:**

– Dad, I can't do this anymore, – he said, – those lessons only exhaust me, and the result doesn't change. It must be not destined for me to play football and my dream will never come true.



The father looked at his son with loving eyes and said:

– You know son, every person in life has a dream, a goal of his life. They are the ones that make us do what we are doing, because it's what we should do. We have to fight for what we believe in, what we feel. In other case, you will simply brake. Once – and for all.

The easiest way is to quit everything and not go until the end, because the path is difficult and we are not used to inconveniences. We want everything to be easy and at once. But the wishes are fleeting! This is how our dream dies, and the goal becomes unreachable.

Gradually, life becomes a routine without depth and meaning. Then one day, we try to forget and start everything from the beginning, we wait for a new day to make our life different. But new obstacles come in our way, and we stop again. We become full of despair and anger for our own helplessness.

But you only need to remember one thing: never give up, fight, battle. It doesn't matter that you have lost one battle and even dozens of battles. Life goes on! Your biggest enemies are hiding in you – laziness, fear, doubt, indecision. Be a warrior of your dream, a knight of your goal and a soldier of your wishes!

It is very important to discover a great purpose or a goal in life. Having gained that goal or ideal, for which you have concentrated all your education- apply yourself to it, whether it be political or economic. It should be an ideal that you have chosen accordingly to your heart not an ideal that somebody has given you, but that which appeals to you the most- then from it , a new enthusiasm comes to you. When there is enthusiasm, then sincerity, ardor, and consistency of purpose automatically follow and a column of energy arises in you.

The goal has to be something higher than yourself, your family and worldly comfort. If there is a social vision that moves us forward, we discover within ourselves a new source of energy. If our head and heart are working, then comes the artistic perfection.

Do not allow this energy to be dissipated in the futile memories of the past, regrets of the failures, the imagined sorrows for the future, or in the excitement of the present.

Thus, bring your entire energy focused into activity. That is the highest creative action.

Where the physical, mental and intellectual personalities become integrated, the individual is nearer to perfection.

When an individual has discovered new energy within himself, has learnt the art of stopping and dissipation, has learnt the art of fixing the entire energy to the piece of work at hand, great joy called 'the joy of the artisan' starts welling up in the mind. the joy of the artisan can be understood only when you experience it.

If we know how to turn our visions in the right direction to which we surrender our work, then even typing which is considered to be a dreary work, can give us immense joy. It matters not what we do, but the glory of the Endeavour lies in how we do it.

We can discover our joy in the precision and perfection of the work that we turn out. Whether others recognize it or not, we get satisfaction that we did our work as best as we could. The quality of action depends upon the ideals which guide and inspire an individual. A person with no ideal feels fatigued in his work. the fatigue is caused by strain and stress which we invite by craving for indulgence in sense objects and ceaseless expectation of the fruits of our actions.

The secret of success, therefore, lies in activities undertaken with a spirit of surrender to an ideal. It can be anything from the idea of doing things for your nation, to earning money, to supporting your family. More noble an ideal, greater source of inspiration will you have.

BE firm in your determination to reach out and gain your goal. Be tireless in your efforts to get at what you have planned to win. Never hesitate...never vacillate, or doubt your ability to storm your goal. Be prepared to meet any trouble as you go along , and march smoothly to your goal. Why hesitate when God is there with you at your elbow ever to help you.

History is full of instances, wherein, victory would have been to the vanquished, if only they had battled a little longer! We often fail for lack of perseverance in our efforts. We leave our work half done in our impatience. Every job demands its quota of efforts. Never give up too soon. Strive on until you win!!!.

The secret of success, therefore, lies in activities undertaken with a spirit of surrender to an ideal.

## NEWS MAKERS OF THE MONTH – MARCH - 2016

### The Government Of India Has Slashed The Interest Rates On Provident Fund , Kisan Vikas Patra And On Small Saving Schemes

The Government of India has slashed the interest rates on



**Provident Fund, Kisan Vikas Patra and on Small Saving Schemes.** The government has reduced these rates on all small saving schemes across

the board. The GOI has announced the **highest reduction of 130 basis points** in the case of one-year time deposit, as per an office order issued by the finance ministry. The rates on small savings schemes have been reduced to align them to market rates.

**The new rates will come into effect on April 1 and will be valid till June 30.**

Please see the below image for all the Interest rate cut imposed by the GOI on Small Saving Schemes.

#### INTEREST RATE ON SMALL SAVING SCHEMES

Instrument	Existing Rate (April 1, 2015 to March 31, 2016)	New Rate (April 1, 2016 to June 30, 2016)
Savings Deposit	4%	4%
1-Year Time Deposit	8.4%	7.1%
2-Year Time Deposit	8.4%	7.2%
3-Year Time Deposit	8.4%	7.4%
5-Year Time Deposit	8.5%	7.9%
5-Year Recurring Deposit	8.4%	7.4%
5-Year Senior Citizen Savings Scheme	9.3%	8.6%
5-Year Monthly Income Account Scheme	8.4%	7.8%
5-Year National Savings Certificate	8.5%	8.1%
Public Provident Fund Scheme	8.7%	8.1%
Kisan Vikas Patra	8.7%	7.8%
Sukanya Samridhi Account Scheme	9.2%	8.6%

Source: Finance Ministry

Finance Ministry had said that the **Sukanya Samridhi Yojana, the Senior Citizen Savings Scheme and the Monthly Income Scheme** are savings schemes based on laudable

social development or social security goals. Hence, the interest rate and spread that these schemes enjoy over the G-sec rate of comparable maturity as of 75 bps, 100 bps and 25 bps **respectively have been left untouched by the Government.** However, the rates on these three scheme were reduced by 60-70 basis points recently.

Government stated that such rates limit the banking sector's ability to lower deposit rates in response to the monetary policy of the RBI. The Government of India had made a case for lowering rates on some schemes. This cut in rates is being done to make small-saving interest rates more market-linked and more market-aligned. The rate of interest on small savings are currently much higher than those offered by banks causing a distortion in the interest rate structure that is coming in the way of interest rates declining.

### 10th Asian Film Awards 2016 concluded: 'The Assassin' Dominates with Eight Awards



The 10th edition of Asian Film Awards (AFA), held at the Venetian Theatre in Macau, China, honoured diverse talents across Asian cinema. The list of the awards given is given below:

**Assassin wins more than half of the 15 awards presented in the Asian film awards**

**Best Film:** The Assassin

**Best Director:** Hou Hsiao-Hsien for The Assassin

**Best Actress:** Shu Qi for The Assassin

**Best Supporting Actress:** Zhou Yun for The Assassin

**Best Cinematography:** Mark Lee Ping-bing for The Assassin

**Best Production Design:** Hwang Wern-ying for The Assassin

**Best Original Music:** Lim Giong for The Assassin

**Best Sound:** Chu Shih-yi, Tu Duu-chih and Wu Shu-yao for The Assassin.

**Others Awards presented****Best Actor:** Lee Byung-hun for The Inside Men**Best Newcomer:** Jessie Li for Port of Call**Best Supporting Actor:** Tadanobu Asano for Journey to the Shore**Best Screenplay:** Jia Zhangke for Mountains May Depart**Best Editing:** William Chang Suk-ping, Chu Ka-yat, Liao Ching-sung, Wong Hoi, Philip Yung for Port of Call**Best Visual Effects:** Prasad Sutar for Bajirao Mastani**Best Costume Design:** Lee Ji-yeon and Shim Hyun-seob for The Throne

Ranveer Singh and Deepika Padukone's "Bajirao Mastani" won the Best Visual Effects award after beating "Baahubali - The Beginning," which was one of the nominees in the category. Vicky Kaushal, who was nominated in the Best Newcomer category for his performance in "Masaan," lost the award to "Port of Call" actress Jessie Li.

## Isro's PSLV-C32 Places India's Sixth Navigation Satellite IRNSS-1F in Orbit



Indian Space agency ISRO's 6th navigation satellite IRNSS-1F was launched on board trusted workhorse PSLV C32 . The launch was delayed by a minute as scientists tried to avoid space debris. The IRNSS-1F or Indian Regional Navigation Satellite System is aimed at providing navigation accurately on par with

the US-based Global Positioning System.

ISRO or Indian Space Research Organisation has launched 5 navigation satellites under the system. The satellites in this series continuously beam down data that can be read even

by smart phones. The satellite system is designed to cover a region of about 1,500 km on all sides of the border.

ISRO scientists plan to put all seven navigation satellites into orbit by March 2016. The last in the series is expected to be launched by the month end. The 44.4 metre tall satellite has a liftoff mass of 1,425 kg and was launched in sub-Geosynchronous Transfer Orbit. It has a 12 year mission life. India's navigation system will cost about Rs. 1,400 crore. ISRO says the system will have an error margin of no more than 20 metres.

**Note:**

The Indian Space Research Organisation, is the space agency of the Indian government headquartered in the city of Bengaluru.

## Rs 8,000 crores has been approved for the Rural LPG under PMUY Scheme



The Cabinet headed by Prime Minister Narendra Modi has approved Pradhan Mantri Ujjwala Yojana with an outlay of Rs 8,000 crores for three years. Under the scheme, the government will spend Rs 8000 crore to provide LPG connections to rural households. The government said that over 80 lakh people have voluntarily given up LPG subsidy.

The scheme aims to provide on a war footing LPG connections to women members of BPL families. Its also aimed at empowering women and protecting their health.

This scheme will be implemented by Union Ministry of Petroleum and Natural Gas. Under the scheme, Financial support of 1600 rupees for each LPG connection will be provided to the BPL households. The identification of eligible BPL families will be made in consultation with the State Governments and the Union Territories. It will be implemented over three years' time frame namely in the FY 2016-17, 2017-18 and 2018-19. The PMUY seeks to empowering women and protecting their health by shifting

them from traditional cooking based on unclean cooking fuels or on fossil fuels that have serious health hazards to clean cooking gas.

## Manoj Kumar To Be Conferred Dada Saheb Phalke Award For The Year 2015

Veteran Film Actor and Director Shri Manoj Kumar to be

conferred the 47th Dada Saheb Phalke Award for the year 2015. The award was conferred by the Government of India for outstanding contribution to the



growth and development of Indian Cinema. The Award consists of a Swarn Kamal (Golden Lotus), a cash prize of Rs. 10 lakhs and a shawl.

The Award is given on the basis of recommendations of a Committee of eminent personalities set up by the Government for this purpose. This year, a five member jury named as Latha Mangeshkar, Asha Bhosle, Salim Khan, Nitin Mukesh and Anup Jalota, unanimously recommended Shri Manoj Kumar for the prestigious Award.

The 78-year-old actor, who became famous as Bharat Kumar, is known for his work in films like Kranti, Woh Kaun Thi, Purab Aur Paschim, Roti Kapda Aur Makaan, Himalaya Ki God Mein, Do Badan, Upkaar, Patthar Ke Sanam, Neel Kamal, Purab Aur Paschim, Roti Kapda Aur Makaan, and Kranti. He is known for acting in and directing films with patriotic themes.

The Dadasaheb Phalke award is India's highest award in cinema. Last year, the Dadasaheb Phalke award was given to Shashi Kapoor. This Hall of Fame includes Sarva Shri Dilip Kumar, Shashi Kapoor, Gulzar, Adoor Gopalakrishnan, Soumitra Chatterjee, Satyajit Ray, Mrinal Sen who were conferred the Award in the past few years.

Manoj Kumar was born in July 1937, in Abbottabad, then part of Pre-Independent India. When he was 10, he shifted to

Delhi. After graduating from Hindu College, University of Delhi, he decided to enter the film industry.

## Asia Cup 2016 Concludes In Bangladesh & India Won Its 6th Asia Cup Title



India beat Bangladesh by 8 wickets in the final to win their Asia Cup title. With this victory, India lifted their sixth Asia Cup title. This is the first time the Asia Cup was held in T20 format and India proved that why they are No.1 side in T20 Internationals.

India finish their unbeaten run in the Asia Cup with a strong performance in the final. Bangladesh fought hard in phases but a victory with six balls to spare and eight wickets in hand is a pretty emphatic one in the end.

The 2016 Asia Cup was a Twenty20 International (T20I) cricket tournament that was held in Bangladesh from 24 February to 6 March 2016. It was the 13th edition of the Asia Cup, the fifth to be held in Bangladesh, and the first to be played using the T20I format.

Along with Bangladesh (the host) and Sri Lanka, the tournament have included India, Pakistan, and one ICC associate member the United Arab Emirates. This time the UAE have qualified from a qualifier played from 19 to 22 February 2016.

Earlier, India and Sri Lanka have won the Asia Cup five times. The other Asian giant Pakistan has won the cup twice. Bangladesh had entered the finals only once which was won by Pakistan by just 2 runs in 2012. This is the second time Bangladesh has entered the finals.

Asia Cup is a men's One Day International & Twenty20 International cricket tournament. It was established in 1983 when the Asian Cricket Council was founded as a

measure to promote goodwill between Asian countries. It was originally scheduled to be held every two years.

#### Quick Highlights:

<b>Cricket Format</b>	: Twenty20 International
<b>Host</b>	: Bangladesh
<b>Champions</b>	: India ( 6th Title )
<b>Participants</b>	: 5
<b>Player Of The Series</b>	: Sabbir Rahman
<b>Most Runs</b>	: Sabbir Rahman
<b>Most Wickets</b>	: Al Amin Hossain

## Vinod Rai Appointed Chairman Of Newly Constituted Banks Board Bureau(BBB)

Former Comptroller and Auditor General (CAG) Vinod Rai has been appointed as the first Chairman of Banks Board Bureau (BBB). His appointment comes after Prime Minister has approved the proposal of the Department of Financial Services for the constitution of the BBB. He is former Comptroller and Auditor General (CAG) from January 2008 and May 2013. The Banks Board Bureau will advise the government on top-level appointments at public sector lenders and ways to address the bad loans problem among other issues.



Last year Finance Minister Arun Jaitley in last 2015 announced that the government is going to set up a Bank Board Bureau for Public Sector Unit (PSU) banks, where each bank would be monitored on the basis of "key performance indicators".

Besides, ICICI Bank's former Joint Managing Director H.N. Sinor, Bank of Baroda's former CMD Anil K Khandelwal and rating agency CRISIL's former chief Rupa Kudwa have been appointed members.

Also, the Prime Minister Narendra Modi has approved the proposal of the Department of Financial Services for the constitution of Banks Board Bureau (BBB) with the named persons as "part-time Chairman/Members, besides the ex-officio official members, for a period of two years".

#### Facts about Bank Board Bureau

1. Bank Board Bureau (BBB) will start the functioning from next financial year i.e. from 1st April 2016 and the selection of its member will start in the next six months.
2. It will replace existing system Appointments Board in which appointments for top level jobs at PSBs are made by an appointments committee led by the Reserve Bank of India (RBI) Governor.
3. Composition: The BBB will be a body of 'eminent' professionals and shall consist of only one government official. It will be six members body with at least 3 former bankers, 2 professionals and secretary, department of financial services representing government.
4. Functions: Give recommendations for appointment of full-time Directors as well as non-Executive Chairman of PSBs.
5. Give advice to PSBs in developing differentiated strategies for raising funds through innovative financial methods and instruments and to deal with issues of stressed assets.
6. Guide banks on mergers and consolidations.

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ONE STOP PORTAL FOR THE CURRENT AFFAIRS

## SUCCESS STORY : I DID IT

Hello Friends,

I am very much thankful to Bankersadda team from bottom of my heart. I checked number of banking preparation sites and Bankersadda.com was one of best among them. For every bank exam I studied your GK Capsules, Test of the Day, 20-20 GA Capsule and it helped me a lot. I want to thank God, Papa, Mummy. I want to say "I am

Proud of you both, Papa and Mummy. You both are my ideal. You supported me mentally and financially every-time [5000 Rs. per month for filling form and other expenses in last year. You always encouraged me." I also want to thank Poonam Didi, Satyendra Jeeja Ji , Sappu, Padmini Didi, Ashishs Jeeja Ji, Gappu, My cousin Sis Pratibha Chaudhary and my friends Ankit Verma, Anurag Verma, Birendra Bhardwaj, Deshraj Singh, Manish Kanojia, Pradeep Kumar, Praksh Chandra Singha, Ramakant Verma, Sarvesh Singh and one secret person who supported me everytime in last year. [Please find my struggle cum success story.

Hi friends, my name is Praveen Kumar. I completed B.Tech in 2010 in Computer Science and before completion of B.Tech I placed as On Job Trainee in HCL Info-Systems Limited. After some time I felt that I should prepare for Govt. Exam (mainly Bank Exam). I joined Bank Coaching and gave exam For IBPS PO I in 2011 and luckily passed but score was low, so I couldn't get a single interview call (That time only written exam was common, interviews was conducted by banks separately.)

In 2012, I filled form of IBPS PO II but didn't give exam as preparation was not good and was also busy in private job.

In 2013, I again gave exam for IBPS PO III, this time also cleared got a chance to give Interview [Common Interview Process] but in final result I was out of race by only 0.2 Marks.

In 2014, I again gave exam for IBPS PO IV , this time also cleared got a chance to give Interview [Common Interview Process] but in final result I was in reserve list now waiting for final allotment.

During 2010 to 2015, I gave some other exams like SSC CGL 2013 IBPS RRB I, IBPS RRB II, IBPS RRB III and FCI 2011 and cleared only written exam but didn't get success in next step.

In some exams I even didn't clear written exams like PNB IT officer, IBPS IT Officer Scale I, , IBPS IT Officer Scale II, IBPS IT Officer Scale III, , IBPS IT Officer Scale IV, SBI PO (two times), RBI Assistant, BOB Manipal .

Now in Jan 2015, I was having experience of 1.5 Yrs. as Trainee and 3 Yrs. Exp. as customer engineer in HCL .But I was not feeling comfort in Pvt. job so I decided to quit job and to start preparation seriously. Preparation time was toughest time of my life, after completing 5 years I was again jobless and still searching for job, I made my friends circle shorter as I didn't feel comfort as I was not in job and they all were drawing handsome salary, also stopped to go in marriages or public gathering events to avoiding questions like, "What are you doing Praveen now" .

**After Jan 2015 I filled form for:**

SSC CGL 2015 [written cleared, Mains result pending]

SSC CPO [written cleared became out of race in Physical]

FCI Assistant [Not cleared]

IAS Prelims [Not cleared] UP Rajasva Lekhpal **[Written cleared waiting for interview call]**

IBPS PO V : [Written cleared and interview is on 21 Jan 2016]  
IBPS RRB IT Officer Scale II [Written cleared, Interview Cleared, and got allotment in Uttar Bihar Gramin Bank].

Finally I just want to say Keep faith in God and Yourself. Do study passionately and patiently, definitely success will be yours.

SO TAKE A  
CHANCE AND  
DON'T EVER  
LOOK BACK.

## INTERVIEW EXPERIENCE OF RBI GRADE B ASPIRANT

**Disqus Name** - Rafael Nadal (BE-2014)

**Venue** - Bhopal

Directly to the interview

4M+1F

Firstly some personal questions about family education

**M2:** You didn't work anywhere why?

**Me:** Sir i wasn't satisfied with packages I'm getting .I worked as freelance website developer for nearly a year than decided to start preparing for govt. job.

**M2:** In which language you made your websites?

**Me:** PHP

**M1:** Explain RBI and its working?

**Me:** Told everything

**M1:** What does IRAC norms mean ? What is/are its significance ?

**Me:** IRAC norms relate to classification of assets. Accounts with over dues greater than 30 days are classified as SMA1, greater than 60 days, SMA 2 etc.

**M1:** What does "provisioning to banks" mean ?

**Me:** Provision means banks keeping some funds extra to cover sub-standard, stressed assets, etc.

**M1:** What is bond buying program of US? how does it work?

**Me:** Since the interest rates in the US/Western were already low(near zero), and they had no more room to cut rates to stimulate the economy and prevent it from going into recession, they started buying long term debt, public and private. And this is the bond buying program. Basically they're buying bonds and injecting money into the system so as to prevent recession and promote/boost economic activity. This is how the interest rates have been at an all-time low. Also this meant that investors got lower yields for their investments and hence they started shifting their investments to the developing/emerging markets/economies

**M1:** How can the Reserve Banks just print currency and distribute it?

**Me:** The dollar is a Reserve Currency and there shall always be a demand for it. Unless the whole US financial system collapses and there is a run on the economy, dollar and other western currencies will remain strong and the Central Banks can continue the Quantitative easy program

**M1:** If the interest rates were so low how does it help injecting money in other economies?

**Me:** The investors get low yields for their investments and hence they want to shift to more attractive destinations even though they are a bit riskier/lax regulations or lax rule of law than the Western economies

I couldn't manage to remember more.. by their expression it was looking they want to here more and more

**M1:** How do these China economy crisis effects Indian investors?

**Me:** Global crises will impact our economic growth and corporate profitability anyway. We are an importing nation that will benefit from low commodity and oil prices. we do not export much. Though we have a decisive government that can act in a crisis. But a global crisis will channel itself through a demand for liquidity. Investors will liquidate risky assets when uncertainty increases. A sell-off in Indian equity and debt markets is very likely as the China story plays out because of this the rupee will be in under pressure and We do not earn the dollars we need for our imports but depend on global capital to fill the gap.

That is where RBI plays part reserves aggressively and delayed the interest rate cut.it is tough position to defend the currency but not fully prevent depreciation

**M3:** What is economical survey and tell me some important points?

**Me:** A annual document of the Ministry of Finance, Government of India, Economic Survey reviews the developments in the Indian economy over the previous 12 months, summarizes the performance on major development programmes,

**These were the major points I remembered at that time:**  
Economic Outlook, Prospects, and Policy Challenges

Fiscal Framework

Putting Public Investment on Track: The Rail Route to Higher Growth

What to Make in India? Manufacturing or Services?

State of the economy and Public Finance

Monetary management and financial intermediation

External sector and Service sector

Industrial, corporate and infrastructure performance

He added some more points to it

**M3:** What was your optional in phase2?

**Me:** finance and management

**M3:** Why did you choose that?

**Me:** Sir, I thought it is easier for me than other subjects to my liking.

**M4:** What are your hobbies?

**Me:** Reading novels watching and playing Cricket, Music, Watching Movies, and sometimes i do write.

**M4:** He picked that line and asked what do you write?

**Me:** Sir it can be about anything social events, movies review, sports or my personal experiences because sometimes the feelings just cannot be expressed they can only be write.

Very true and whole panel smiled :)

**M4:** India played very poorly against New Zealand if you are the Captain of India what change of plan you would strategies to make sure India's win against Pakistan?

**M1:** Sir i will make sure the confidence of the team doesn't get low because we have the full team of compact players and has the talent to beat any team on any day. The batting just didn't clicked in last match some weak and unnecessary shots were played which could have been avoided so will look forward to it. Bumrah is doing well with his yorkers will rely on him again on death overs and Ashish Nehra really needs to step as a experience bowler delivering full tosses

will not do any good and against Pakistan we will have upper hand anyhow.

In the end how you perform on the given day all it matters so i will just told the just forget about everything just focus on this.

**M4:** Have you watched the teaser of MS Dhoni: the untold story? how was it?

**Me:** Sir i think it was quiet impressive it will be very interesting to watch the struggle of MS Dhoni how he worked from a small town boy to the biggest hero of India?

**M4:** Will it make it to 100 cr club with smiling expression?

**Me:** Sir i guess it should be taking the popularity of MS Dhoni and winning T20 will do more good for movie.

**M4:** Which actor/actress movies earned most in a single year in Bollywood?

**Me:** Unexpected question but i knew the answer it was my fav Deepika Padukone afterall... i told them she earned 630 cr around in 2013 in her 4 movies

**M4:** ok you can go

That sit it sticking around 20 min of not so easy but still very interesting.. Panel was very helpful and now i can just hope all the things will get placed rightly for me

**“The best way to predict the future is to create it.”**

## CURRENT AFFAIRS : MARCH 2016

### INDIA IN NEWS

#### Modi Is Among The Most Influential People & To Join World Leaders In Wax At Madame Tussauds

Prime Minister Narendra Modi is among the most influential people on the Internet, according to TIME magazine. Also, our Prime Minister will join the ranks of prominent global leaders at Madame Tussauds in London, Singapore, Hong Kong and Bangkok in April 2016.

#### India, US Discuss Joint Building Of Aircraft Carrier

In an effort to enhance co-operation in the field of building aircraft carrier in India, US Navy officials held extensive talks with Indian counterparts. This high-level dialogue was part of Joint Working Group (JWG) on Aircraft Carrier Technology under the aegis of Defence Technology and Trade Initiative (DTTI) signed between the two countries last year.

#### Modi Promises 5 Cr Houses For Poor By 2022

A tearful adieu was given to Capt Pawan Kumar and Capt Tushar Mahajan, who died fighting militants in Kashmir's Pulwama district, with their last rites performed at their home towns in Haryana and Jammu & Kashmir with full military honours.

#### Pm To Unveil Conference On Tiger Conservation On April 12

The three-day Asia Ministerial Conference on Tiger Conservation will be inaugurated by Prime Minister Narendra Modi on April 12. This is the third such conference on tiger conservation.

#### Paas Launches 33-day saurashtra 'Solidarity March'

The Patidar Anamat Andolan Samiti (PAAS), which is leading the OBC quota agitation of the Patel community, launched its 'Ekta Yatra' (solidarity march) from Umiyadham at Sidsar.

#### US Defence Secy To Visit India On April 9

US Defence Secretary Ashton Carter will visit India in April this year during which he will meet the top leadership here and review bilateral cooperation in the critical sector and also identify new areas of access in the defence procurement market.

#### Gujarat Govt To Allot 31 Acre Land For Proposed Railways University

Gujarat Government has decided to give 31 acre land for proposed sprawling Railways University campus near Vadodara in Central Gujarat. This will be the first Railways University in the country.

#### After 4 Years, India To Re-Engage With EU

India will re-engage with the European Union (EU) in Brussels next month when Prime Minister Narendra Modi travels to Brussels on March 30 to attend the India-EU Summit after a gap of four years. The PM will also visit Washington to attend Nuclear Security Summit (NSS) from March 31 and then travel to Saudi Arabia for bilateral visit on April 2.

#### Modest 10.9% Boost For Defence Sector

The Defence sector got a modest hike of 10.90 per cent to sustain ongoing modernisation drive of the armed forces. Finance Minister Arun Jaitley also increased the capital outlay by more than Rs5,000 crore to Rs86,340 crore. The overall Defence Budget for the next financial year is Rs2,49,099 crore as against the revised estimate of Rs2,24,636 crore last year.

#### Rs. 727.75 Cr For CBI



The Union Budget for 2016-17 has allocated Rs727.75 crore for the country's premiere investigation agency CBI, nearly a 32 per cent jump over the last fiscal that had provided Rs550.08 crore in the revised estimates of 2015-16.

#### Rs 7,296 Allocation For Smart Cities, Amrut

The Government allocated about Rs 7,296 crore for two Central schemes — Atal Mission for Rejuvenation and Urban Transformation (AMRUT) and 'Smart Cities' Mission. The general Budget 2016-17 earmarked an amount of Rs 3,205 crore for the development of 100 smart cities across the country by 2020, while nearly Rs 4,091 crore for AMRUT.

#### CBI To Set Up Cyber Crime Probe Unit In Mumbai

The Central Bureau of Investigation (CBI) is planning to set up a cyber crime investigation unit in the metropolis, to deal

with the increasing number of economic offences and cyber crimes in the country's commercial capital. The proposed cyber crime investigation unit was in addition to a full-fledged facility that currently exists in New Delhi.

#### India Post To Approach Rbi For Interoperability Of Atms

Department of Post (DoP) will soon approach Reserve Bank



for interoperability of its ATMs with commercial banks as it looks to roll out 10,000 ATMs across the country by the end of this year.

#### India, 3 Other G-4 Countries Hold Discussions

India and three other G-4 countries deliberated on developments on the Security Council reform agenda at the Inter-Governmental Negotiations at the UN in moving towards text-based negotiations. The Directors General on UN Affairs and Permanent Representatives to the UN of India, Brazil, Germany and Japan met here to exchange views on the issue of the UNSC reform.

#### Nitish Talks Dam Construction With Nepal PM

Chief Minister Nitish Kumar who returned after two days of Nepal visit said that he spoke to Nepal President and Prime Minister over the construction of high dams as flood control measure and save Bihar from the fury of flood because of the rivers originating from the Himalayan nation. He visited Nepal at the invitation of the Nepali Congress and attended its 13th National Convention.

#### Prez Honours Elite Iaf's Helicopter Unit

President Pranab Mukherjee awarded the 'President's Standard' to Indian Air Force's elite 119 Helicopter Unit, known for its role to flush out terrorists during the 26/11 Mumbai terror attacks and various other special operations including in foreign shores, for its professional excellence and stellar performance.

#### Railways Ropes In Ernst And Young As Consultant

Initiating a large-scale significant exercise to identify and leverage pan-India advertising opportunities at railway stations and trains, the Indian Railways has tied up with multinational Ernst and Young as consultant to undertake the job of raising funds for railways infrastructure development.

#### Air Force To Induct First Batch Of Women Fighter Pilots On June 18

The IAF will induct the first batch of women fighter jet pilots comprising three cadets on June 18 this year, IAF chief Arup Raha said. The three cadets including Mohana Singh, Avni Chaturvedi and Bhawna Kanth are now undergoing training.

#### India Fastest Growing Market In Civil Aviation At 14%: Prez

President Pranab Mukherjee said that India was the fastest growing country in the world in civil aviation sector with an annual growth rate of 14 per cent.

#### Prez Inaugurated Hyderabad Airshow

'India Aviation 2016', the five-day prestigious International Exhibition and Conference on civil Aviation will be inaugurated by President Pranab Mukherjee at Begumpet Airport. Emirates, Qatar Airways and Etihad will be among the airlines of the Gulf region to participate in the event.

#### Modi To Inaugurate Four-Day Long World Sufi Forum

Prime Minister Narendra Modi inaugurated World Sufi Forum. The four-day long event is organised by All India Ulama and Mashaikh Board (AIUMB), the apex body of Sufi Dargahs in India.

#### Mother Teresa To Be Made Saint On September 4

Mother Teresa will be made a saint on September 4, Pope Francis announced, 19 years after the death of the Nobel Laureate who spent 45 years serving the poor and sick on the streets of Kolkata. Teresa founded the Missionaries of Charity and spent 45 years serving the poor, the sick, the orphaned, and the dying on the streets of Kolkata. She died at the age of 87 in Kolkata in 1997.

#### First Phase Of Budget Session Ends On High Note, 8 Bills Passed

In the first phase of the Budget session, eight Bills passed by both the Houses of Parliament including the important Real Estate regulation Bill. Besides real estate Bill, election laws (amendment) Bill, the carriage by air Bill and Bill regarding anomalies in the salaries and allowances of judges was passed.

#### Akhilesh Announces Next Fiscal As Kisan Varsh

Reiterating his Government's resolve to help the farming community, Chief Minister Akhilesh Yadav said that the State

Government has announced the next fiscal as 'Kisan Varsh' so that benefits of policies could reach the target audience.

#### **Maha Sadan Scam: Ex-Deputy Cm Arrested For Money Laundering**

Maharashtra's former Deputy Chief Minister Chhagan Bhujbal was arrested by the Enforcement Directorate (ED) in connection with two money laundering cases registered against him, his family members and associates.

#### **Swaraj-Aziz To Meet In Nepal**

External Affairs Minister Sushma Swaraj will be meeting her Pakistan counterpart Sartaj Aziz on the sidelines of SAARC Ministerial meeting in Nepal. This will be the second meeting between Swaraj and Aziz after December 9 when the two countries announced resumption of Comprehensive Bilateral Dialogue (CBD).

#### **Cameron Invites AoI Founder To Address House Of Commons**

British Prime Minister David Cameron invited Art of Living (AoL) Foundation's founder Sri Sri Ravi Shankar to address the House of Commons, the lower house of parliament. Cameron sent his invitation in a message through his Conservative Party's parliamentary Matthew Offord who attended the AoL's World Culture Festival.



#### **Kakarapar N-Plant Shut Down**

South Gujarat-based Kakarapar Atomic Power Station (KAPS) owned by the Nuclear Power Corporation of India shut down following a leak in its Primary Heat Transport System (PHTS). The Kakarapar Atomic Power Station (KAPS) -1 & 2 consists of two units of pressurised heavy water reactor of 220MWe each.

#### **AP Announces Five New Greenfield Airports**

Andhra Pradesh has unveiled ambitious plans for developing five new greenfield airport, one of them less than 200 kms away from Hyderabad just across the borders of Telangana. The new greenfield airports will be developed at Nagarjuna Sagar (Guntur), Bhogapuram (Vizianagaram district),

Dagadarti (Nellore district) Urakallu (Kurnool) and Dona Konda (Prakasham).

#### **'India First' Campaign Kicked Off In Gujarat**

National president of BJP Yuva Morcha (BJYM) Anurag Thakur kicked off 'India First' country-wide initiative of ruling BJP from Ahmedabad by garlanding statue of Netaji Shubhash Chandra Bose.

#### **Mumbai, Bangalore Among Cheapest Cities In World: EIU**

Mumbai and Bangalore are among the cheapest cities in the world, according to a top London-based forecast group that named Singapore as the most expensive city. The cheapest were Lusaka, the capital of Zambia, followed by Bangalore and Mumbai, the EIU said.

#### **Navi Mumbai International Airport To Be Operational From 2019**

The Maharashtra Government announced that it would complete the construction of the Navi Mumbai International Airport (NMIA) by 2019 according to the Maharashtra Governor Ch Vidyasagar Rao.

## STATES IN NEWS

#### **Bihar Gets Rs 3,171 Cr**

Bihar has got Rs 3,171 crore for new and ongoing projects in the Budget 2016-17 that includes a new rail bridge over the Ganga in the State. This is an increase of 29 per cent from Rs 2,489 crore in 2015-16.

#### **Haryana Unveils New Solar Power Policy**

The Haryana government released its solar power policy, 2016 which aims at installing 4,000 Mega Watt capacity in five years through numerous steps like grant of status of industry, exemption from Land ceiling laws and price preference of two per cent for one to two Mega Watt producers located in Haryana.

#### **India's Longest Railway Bridge To Be In Katni, MP**

Katni in Madhya Pradesh to have India's longest railway bridge of 14 km in length which is three and half folds longer than the Vembanad rail Bridge that connects Edappally and Vallarpadam of 4.6 Km in length. Its total length would be 21 Km included the down line of the bridge would be 7 Km.

**Ola Signed Pact with up Govt.**

Taxi aggregator Ola has entered into an agreement with the Uttar Pradesh government to create over 50,000 entrepreneurship opportunities across the state.

**New CJ Of Orissa Hc Appointed**

Justice Vineet Saran has appointed as the new Chief Justice (CJ) of Orissa High Court as per the provisions of Article 217 of Constitution.

**New CJ Of Meghalaya Hc Appointed**

Justice Dinesh Maheshwari has sworn in as the Chief justice of the Meghalaya High Court. Prior to this appointment he was working in Allahabad High Court.

**42<sup>nd</sup> Khajuraho Dance Festival Held**

The 42nd Khajuraho Dance Festival began in the temple town of Khajuraho, Chhattarpur district in Madhya Pradesh. The world famous dance festival began with Odissi group dance of Ranjna Gauher and others.

**Mp And Rajasthan Set UP Spv For Smart City**

Madhya Pradesh and Rajasthan Government have set up Special Purpose Vehicles (SPV) for the implementation of Smart City Plans. SPVs have been set up for five cities – Jabalpur, Indore and Bhopal in Madhya Pradesh and Jaipur and Udaipur in Rajasthan.

**Himachal pradesh cricket association (HPCA) launched 'swachh himachal'**

Himachal Pradesh Cricket Association (HPCA) has launched 'Swachh Himachal – Padhai bhi, Safai bhi' campaign in Dharamsala. With this unique campaign, HPCA became the first cricket association in the country to work towards Swatch Bharat Abhiyan initiated by the Union Government.

**Kerala, The First Digital State**

President Pranab Mukherjee will declare **Kerala as the first digital** state of the country on 27th February, 2016.

**MASS RAPID TRANSIT SYSTEM (MRTS) FOR GUWAHATI**

The Assam Cabinet approved the detailed project report (DPR) for a Mass Rapid Transit System (MRTS) for Guwahati. The cabinet also gave green signal to setting up of the Guwahati Metro Rail Corporation Limited (GMRCL).

**National Food Security Act (NFSA) Launched In Mizoram**

National Food Security Act (NFSA) 2013 was officially launched in Mizoram. The Act was launched by state Food civil Supplies and Consumer affairs Minister John Rotluangliana at Aizwal. The Act will become effective in the state from 1 March 2016.

**New CJ Of Karnataka HC Appointed**

Justice **Subhro Kamal Mukherjee** took oath as the 28th Chief Justice of the High Court of Karnataka.

**Supreme Court Stays Punjab Assembly's Bill On De-Notification Of Land Of Sutlej Yamuna Link Canal**

Punjab Assembly unanimously passed the Punjab Sutlej Yamuna Link Canal land bill-2016. The bill was passed in contradiction of the construction of contentious Sutlej Yamuna Link. The bill emphasizes to offer transfer of proprietary rights back to the land owners from whom the land was acquired by the state government for the construction of SYL free of cost.

**Jammu & kashmir 9th state to join uday scheme, to save Rs 9,800 cr.**

Jammu & Kashmir (J&K) became the 9th state to sign the memorandum of understanding (MoU) for power distribution reforms, the Ujwal Discoms Assurance Yojana (UDAY). An overall net benefit of approximately Rs 9,800 crore would accrue to J&K by opting to participate in UDAY.

**Earthquake Warning System Installed At Haryana Govt's Building**

The new Secretariat in Haryana has become the only building in India to have an Earthquake Warning System installed onsite. The 'Early Earthquake Warning and Security System' has been installed by Terra Techcom free of cost.

**Singareni 600 Mw Power Unit Synchronised In Telangana**

The first of two 600 MW power generation units at the Singareni Thermal Power Plant (STPP) at Pegadapalli in Jaipur mandal of Adilabad District, was synchronized. The power generation unit will be inaugurated by Chief Minister K. Chandrashekhara Rao in April.

### Maharashtra Cabinet Approved Prohibition Of Social Boycott Bill, 2016

Maharashtra Cabinet approved the Maharashtra Prohibition of Social Boycott Bill, 2016. The bill provides for the prohibition of social boycott of a person or group of persons including their family members by an individual or a group like Caste Panchayat. Once the bill is approved by the State legislature, Maharashtra will become the first State in the country to enact a law against social boycott.

### Sex Ratio Dips In Gujarat Ranks 22nd In India

The sex ratio in Gujarat has come down to 919 in 2011 from 920 in 2001 as against a significant increase of 10 points in the national average during this period, according to the 'socio-economic review for 2015-16' tabled in the State Assembly recently.

### Mumbai To Host Brics Friendship Cities Conclave In April

Mumbai financial capital of India to host BRICS Friendship Cities Conclave in April involving top Urban Policy makers and Planners from BRICS Nations. The Conclave is a joint initiative of Ministry of External Affairs and Maharashtra Government to be held between April 14 and 16 this year.

### 108-Foot Jain Teerthankar Idol Enters "Guinness Book of Records"

108-feet tall idol of Lord Rishabhdeva, the first Teerthankar of Jains, carved out of a single rock, has entered the "Guinness World Records" as the world's tallest Jain statue. The idol was consecrated last month during a grand ceremony where rituals were performed for several days.

### Germany Partners With India To Develop Kochi, Coimbatore, Bhubaneswar As Smart Cities

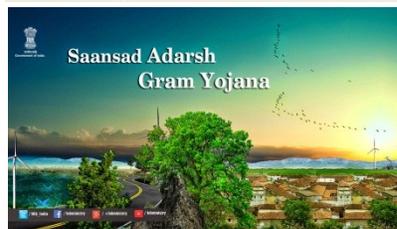
Germany will partner India in turning Bhubaneswar, Coimbatore and Kochi into smart cities, according to German ambassador to India Martin Ney Germany is an ideal partner in India's mission to create smarter cities as the country is "very strong at smart planning for urban centres.

### Oil Minister Lays Foundation Stone Of Octomax Unit At Mathura (UP)

Dharmendra Pradhan, the Union Minister for Petroleum and Natural Gases laid the foundation stone of Country's 1st its of kind Octomax unit at Mathura refinery. It will help in the

production of high octane gasoline. Octomax, a "novel technology" developed in-house by Research and Development Center of Indian Oil, involves conversion of cracked C4 streams to high-octane gasoline blending stock for production of Euro-IV/V equivalent gasoline.

### PM Selects Another Village In Varanasi For Development Under Sagy



PM has selected another village for adoption in his Varanasi Constituency of U.P. for development under the Saansad Adarsh Gram Yojana (SAGY). Nagepur, a village dominated by backward castes has been selected under the second phase of the Yojana. Earlier, Prime Minister had adopted Jayapur village in the same Varanasi constituency in the first phase in 2014.

### Chapchar Kut Festival Celebrated Across Mizoram

The traditional festival of Chapchar Kut of the Mizos was celebrated across the north-eastern state of Mizoram and also in the Mizo-inhabited areas in the neighbouring states. It is a spring festival celebrated every year in month of March.

### Chennai Gets India's First Self Cleaning Smart Toilets

A total of 183 self cleaning public eToilets have been installed in the Chennai City. Chennai is the 1st city in India to get smart Toilets. These toilets are free for Public use.

### 1st Raisina Dialogue Inaugurated By Sushma Swaraj In New Delhi

External Affairs Minister Sushma Swaraj has inaugurated the 1st Raisina Dialogue in New Delhi. It is designed to explore prospects and opportunities for Asian integration.

## BANKS IN NEWS

### HDFC To Raise Rs 1,000 Cr For Refinancing Needs

Mortgage lender HDFC Ltd will raise Rs 1,000 crore by issuing non-convertible debentures, to cater to its housing finance business needs. The object of the issue is to augment the long-term resources of the corporation. The proceeds of the present issue would be utilised for financing/refinancing.

**India Post Selects Deloitte As Consultant For Payments Bank**

India Post has selected Deloitte to advise it on setting up a payments bank. The Public Investment Board has already approved the Rs 800-crore proposal of India Post and in 15 days, it will go to the Cabinet for final approval.

**RBI to infuse rs 15,000 cr liquidity via omo**

Reserve Bank said it will buy Government securities under the open market operations (OMOs) on March 17 to infuse liquidity of Rs 15,000 crore into the system.

**SEBI approved IDBI to issue shares**

SEBI has given approval to State-owned IDBI Bank market regulator to raise Rs 3,771 crore through issue of shares to qualified institutional players (QIP) move which would dilute the government's holding significantly in the lender.

**PNB declared the list of Defaulters**

State-owned Punjab National Bank (PNB) has declared 90 borrowers who owed it a combined Rs.10,869.71 crore as of December-end as willful defaulters. The bank added 14 companies to the list of wilful defaulters over the last quarter.

**SBI Launched e-Smart SME**

Banking giant SBI has taken another leap in this space with the launch of SBI e-Smart SME, a working capital loan offering for sellers on ecommerce platforms.

**Mastercard launches new Mobile technology**

Mastercard is launching new mobile technologies that will allow customers to authenticate their online purchases using selfies or fingerprints. The technology will be rolled out by big banks in the U.S., Canada, the U.K. and some European countries over the next few months.

**RBI signed \$2 billion currency swap arrangement to SAARC nations**

In order to enhance economic cooperation and strengthen financial stability, RBI has extended the \$2 billion currency swap arrangement to SAARC nations till mid-November 2017. Under the arrangement, RBI is to offer swap

arrangement up to an overall amount of \$2 billion both in foreign currency and Indian rupee.

**PIB approved 800 crores for setting up of Payment Bank**

The Public Investment Board has approved the Rs 800-crore proposal from India Post for setting up a payments bank and it will be placed before the Cabinet within a month for final approval.

**Yes Bank received Green Bond Pioneer Award**

YES Bank, India's fifth largest private sector bank received the prestigious Green Bond Pioneer Award for being the **Pioneers in Emerging Markets-India** in an award ceremony at London Stock Exchange (LSE), London.

**Parliamentary Standing committee on Finance submitted report on NPAs**

Parliamentary Standing committee on Finance submitted the report on the Net Non-performing Assets (NPAs) of Public Sector Banks (PSBs). The committee is chaired by M. Veerappa Moily.

**RBI cancelled certification of 26 NBFC's**

The Reserve Bank of India (RBI) has cancelled the certificate of registration of the 26 (twenty six) non-banking financial companies (NBFCs), in exercise of the powers conferred on it under Section 45-IA (6) of the Reserve Bank of India Act, 1934.

**DBS Likely To Acquire Royal Bank Of Scotland's India Operations**

DBS Group Holdings is planning to acquire Royal Bank of Scotland Group's Indian onshore operations for about Rs. 1,000 crore. The transaction includes three main parts of RBS' India operations a network of 10 branches, corporate loan platform and debt capital market.

**Yes Bank Ink Pact With India-Brazil Chamber For Strategic Cooperation**

Yes Bank has inked a pact with the India Brazil Chamber of Commerce (IBCC) for cooperation in knowledge sharing, consultancy, skill and technology, and B2B opportunities. The core sectors covered in the MoU will be sports, media and entertainment with special focus on IT, infrastructure, broadcast driven business opportunities.

**ICICI Bank Ties Up With Ferrari For co-branded Credit Card**

ICICI Bank has tied up with marquee sports car maker Ferrari to launch co-branded credit card."The 'Ferrari Credit Card' comes in two variants on the Visa platform and offers customers a host of offers.

**HDFC Bank Ties Up With 5 Start Ups**

HDFC Bank has chosen five start-ups, it will work with to strengthen their web, mobile and payment offerings. Five start ups companies with whom HDFC Bank has tied up are Sense forth Technologies, Tagnpin, Safe 2 Pay, Bugclipper & Taptis Technology.

**ICICI Bank launches credit-linked subsidy scheme for women under PMAY**

Country's largest private sector lender ICICI Bank launched a credit-linked subsidy scheme for home loans under Pradhan Mantri Awas Yojana (PMAY). Under the scheme, an eligible customer will get a subsidy at 6.5 per cent per annum on a maximum amount of Rs 6 lakh or the loan amount, whichever is lower, for a maximum tenure of 15 years. ICICI Bank has signed a MoU with National Housing Bank (NHB) to facilitate the credit-linked subsidy to eligible borrowers.

**RBI inks information exchange pact with Bank of Israel**

Reserve Bank of India has signed a pact with Bank of Israel for Information Exchange and Banking supervision. A memorandum of Understanding (MoU) was signed between HedvaBer from Bank of Israel and Parvathy V sundaram Chief General Manager on behalf of RBI. With this, the RBI has signed 32 such MoUs, one Letter for Supervisory Co-operation and one Statement of Co-operation.

**YES BANK launches All-Women 'YES Grace' branches**

Private lender Yes Bank launched an all-women operated bank branch 'Yes Grace' on Cunningham Road

here aimed at offering customised banking solutions to women.

**ICICI Bank Launches iWork @home An Initiative For Women Staff**

ICICI Bank has launched iWork @home an initiative that allows women employees to work from home for up to one

year. This initiative allows female employees to have access to their required operating systems in a safe and secure manner.

**SoftBank Splits Into Two Subsidiaries**

Japanese investment bank Soft-Bank Group Corporation said that it is in planning to separate its profitable domestic mobile business from its international business, which includes a majority stake in US mobile operator Sprint Corp. Both the subsidiaries will be 100-percent owned by SoftBank.

**Reserve Bank of India to share FDI-related information with IB and RAW**

The Reserve Bank of India is India's central banking institution, which controls the monetary policy of the Indian rupee, has decided to share FDI-related data with the country's intelligence agencies, Intelligence Bureau (IB) and Research and Analysis Wing (RAW), to check the black money entering India.

**27 Government Banks May Be Merged Into Just 6**

Finance Minister of India Mr. Arun Jaitley has indicated that the Government may merge 27 public sector banks into just six. Because PSB is working under pressure to tackle their dismal bad loan scenario and consolidation is the way forward to handle this situation. This has been said in the recently held Gyan Sangam in Gurgaon.

**Myanmar grants operating licenses to four more Asian banks including SBI**

Myanmar has granted operating licenses to four Asian banks, bringing to 13 the number of foreign banks allowed to conduct business in the previously isolated country. Bank for Investment and Development of Vietnam, State Bank of India, Taiwan's Sun Commercial Bank and South Korea's Shinhan Bank, these are the four bank were granted preliminary licenses, Myanmar's Foreign Bank Licensing Committee.

**Country's First Small Finance Bank To Start Ops On April 13**

Jalandhar-based Capital Local Area Bank has become the first entity to receive the Reserve Bank of India's licence to start operations as a small finance bank. As per Sarvjit Singh Samra, managing director of Capital Local Area Bank plans to start its small finance bank operations on April 13.

**Three Non Officials Directors Appointed To The Board Of Reserve Bank Of India**

Tata Consultancy Services (TCS) CEO and managing director Natarajan Chandrasekaran, former Chief Secretary of Gujarat Sudhir Mankad & Bharat Narotam Doshi, who is the non-executive chairman of Mahindra & Mahindra has been appointed as Non Officials Directors to the board of RBI for a tenure of 4 year .

**Reserve Bank Of India Issues Draft Norms For NBFC-AA**

The Reserve Bank of India has issued draft norms for the creation of a new entity in the non-banking financial sector, namely NBFC – Account Aggregator (AA) and proposed that the minimum capital for start such an activity will be Rs. two crore.

**RBI unlocks Rs.40000 crore additional capital for banks**

At the time when public sector banks are facing pressure on their profitability due to a sharp rise in non-performing assets, which is eroding their capital base. The Reserve Bank of India (RBI) move comes revised norms on capital recognition, making available an additional Rs.40,000 crore to Indian banks.

**SIDBI To Raise Rs 10,000 Cr. For Stand Up India Fund**

The Small Industries Development Bank of India (SIDBI) will raise the proposed Rs 10,000 Crore corpus for 'Stand Up India Fund' from Reserve Bank Of India. The Fund will be disbursed to Dalit and women entrepreneurs.

**The Public Sector Banks write off bad loans**

A huge amount of Rs 1,14,182 crore was written-off in bad loans by public sector banks in the last three years as part of management of their non-performing assets (NPAs). This detail was shared in Lok Sabha.

**Govt plans dual license for financial inclusion drive.**

The government has mooted a dual-licensing policy — one a basic banking license exclusively to meet financial inclusions obligation and the other for private sector aspirants that will offer all commercial banking services. Besides, it has suggested an overhaul of the banking sector to improve its

efficiency and promote inclusive growth, in its latest economic survey.

**1st BRICS Bank Loan To India Likely for Solar Project**

As per K V kamath president of New Development Bank set up by BRICS countries aims to lend up to \$2 billion this year starting in about two months and the multilateral lender's first loan to India could be for a green solar energy project.

**Gold worth Rs. 3000 crores deposited under GMS**

The Government has netted a hefty 1,131 kg of gold valuing Rs 3,014 crore under the Gold Monetisation Scheme. Depositors will earn up to 2.50 per cent interest per annum on the gold, a rate lower than savings bank deposits in this scheme.

**SBI Gets Shareholders' Nod To Raise Rs. 15,000 Crore**

According to State bank of India largest banker in the country approval to raise up to Rs 15,000 crore by public issue or overseas issuance of shares. In January 2016 SBI had informed about its plans to raise this sum of Rs 15,000 crore by March 2017.

**SBI Opens "Japan Desk" In New Dehi**

India's Banking Giant State Bank of India (SBI) has launched 'Japan Desk', a single window for inbound Japanese investments in India and vice-versa. This is a first-of-its-kind initiative that seeks to facilitate Japanese corporate looking to invest in India with banking and advisory services.

## ECONOMY NEWS

**India On Road To Recovery, To Grow At 7.5%, Says IMF**

Expressing satisfaction with India's economic management, the International Monetary Fund believes the country may well be on the road to recovery, closing 2015-16 with 7.3 per cent growth and clocking 7.5 per cent in 2016-17.

**Over Rs 1 lakh crore disbursed under MUDRA Yojana**

Under Pradhan Mantri Mudra Yojana, loans worth Rs1.09 lakh crore have been sanctioned to small entrepreneurs were given to over 2.96 crore beneficiaries. MUDRA Bank is a new institution being set up by Government of India for development and refinancing activities relating to micro units.

**Govt mobilises Rs 370 crore under Swachh Bharat Kosh**

The fund for Swachh Bharat Khosh is mobilized with 370 crores by the government. This fund is created to support the various cleanliness programmes across the nation.

**EPFO tightened norms on withdrawal of PF**

Retirement fund body EPFO has tightened norms on withdrawal of provident fund as well investment of such amount in Varishtha Pension Bima Yojana for its over five crore subscribers. The subscribers will not be able to claim withdrawal of their provident fund after attaining age of 54 years. They would have to wait till attaining the age 57 years.

**AIM & SETU in NITI Aayog****नीति आयोग**

The Union Cabinet chaired by the Prime Minister Narendra Modi has given its approval for establishment of Atal Innovation Mission (AIM) and Self Employment and Talent Utilisation (SETU) in NITI Aayog

with appropriate manpower.

**One million dollars to Fiji**

Cyclone-hit Fiji will receive one million dollars as immediate assistance from the Indian Government. This was announced by Ministry of External Affairs (MEA) spokesperson Vikas Swarup.

**PSUs Spent Over Rs 2400 Crore In CSR In 2014-15**

Government of India has announced that in 2014-2015, 116 Public Sector Enterprises (PSUs) have spent an amount of rs. 2447.59 Crore on Corporate Social Responsibility (CSR) activities and no complaint has been received on misuse of these funds.

**Centre To Sign Pacts Worth Over Rs.72,000 cr At Shipping**

The Shipping Ministry has identified 109 projects worth Rs.72,864 crore on which agreements will be signed at the Indian Maritime Summit to be held in Mumbai from April 14-16. According to Road Transport, Highways and Shipping Minister Nitin Gadkari South Korea will be the partner country for the Summit. Prime Minister Narendra Modi will inaugurate the summit on April 14.

**FM Arun Jaitley Rolls Back Proposal to Tax EPF**

Union Finance Minister Arun Jaitley announced the withdrawal of the budget proposal on taxing Employees Provident Fund, following a backlash in and outside Parliament. He announced to withdraw the proposal while clarifying NDA government's stand on the issue in the Lok Sabha.

**International Finance Corporation Launches Masala Bonds**

International Finance Corporation (IFC), a part of the World Bank group launched its first Uridashi Masala bonds (Japanese Bonds) to mobilize R30 crore (or \$4.3 million) directly from Japanese household investors to promote private sector development in India.

**India Signs Financing Agreement With World Bank For US\$ 300 Million**

A financing agreement for International Development Association (IDA) credit of US\$ 300 (equivalent) for the Madhya Pradesh Higher Education Quality Improvement Project was signed with the World Bank. Objective of this project is to improve student outcomes especially of disadvantaged groups in selected Higher Education Institutions (HEIs) and to increase the effectiveness of the Higher Education System in Madhya Pradesh.

**Historic Old War Office in London Acquired By Hinduja Group**

The Hinduja Group, which is a global conglomerate company, acquired the heritage Old War Office in London that was once inhabited by Winston Churchill. The plan is to convert it into a hotel and luxury residences.

**FDI up 40 pc to \$29.44b in April-December FY16**

The Foreign direct investment (FDI) into the country increased by 40 per cent to \$29.44 billion during April-December in the current fiscal. The foreign investment inflows were at \$21.04 billion in the same period of previous fiscal.

**Government To Sell Its 5 % Stake In NTPC**

Government will sell its 5 per cent stake in India's largest power producer NTPC at a floor price of Rs 122 per share to raise Rs 5,029 crore. The government, which owns almost

75% of the company, plans to sell its stake in the two-day sale filings.

## BUSINESS NEWS

### PM TO OPEN POWER SUPPLY FROM TRIPURA TO B'DESH

Prime Minister Narendra Modi will inaugurate by remote control 100 mw power supply from Tripura's Palatana project to Bangladesh on March 23. The same day Bangladesh Prime Minister Sheikh Hasina would provide 10 GB Internet bandwidth to India, Tripura Power and Communication Minister Manik Dey. Tripura will be third state which is having such gateway after Mumbai and Chennai.

### MUKESH AMBANI AGAIN TOPS 84 INDIAN BILLIONAIRES IN FORBES LIST.

Mukesh Ambani Reliance Industries chairman again topped 84 Indian billionaires in Forbes 2016 list of the world's richest people once again headed by Bill Gates with a net worth of \$75 billion. Mukesh Ambani with a net worth of \$19.3 billion was ranked 36<sup>th</sup>.

### MICHELIN TIES UP WITH SNAPDEAL TO SELL TYRES ONLINE

French tyre major Michelin has tied up with online marketplace Snapdeal to sell its products through the e-commerce platform.

### RELIANCE POWER TO RAISE RS1K CR VIA NCDS

Anil Ambani-led Reliance Power plans to raise Rs1,000 crores through an issuance of non-convertible debentures. The Board



of Directors of the company have given their in-principle approval to the company.

### OVL, IOC CONSORTIUM TO BUY TWO RUSSIAN OIL ASSETS FOR OVER RS28.2K CR

Russian oil group Rosneft plans to sell stakes in two major assets to Indian oil companies in a major deals that could raise about \$4.2 billion or over Rs28,253 crore for the group. The mega deal was signed by ONGC Videsh Ltd (OVL) and a consortium led by Indian Oil Corp (OIC) in which ONGC will increase its stake in Vankor project to 26 per cent, while IOC, BPCL and OIL will buy up to 23.9 per cent between them in the same field.

### AIRTEL TO BUY VIDEOCON'S SPECTRUM FOR RS4,428 CRORE

Bharti Airtel struck a deal of Rs4,428-crore to buy Videocon Telecom's 1,800 megahertz band spectrum in six regions. The six licence areas where Dhoot's family-owned Videocon had spectrum are Bihar, Haryana, Madhya Pradesh, eastern Uttar Pradesh, western Uttar Pradesh and Gujarat.

### AMAR ABROL TO SUCCEED MITTU CHANDILYA AS CEO OF AIRASIA

Air Asia India said that Amar Abrol will take over as the CEO from Mittu Chandilya. Abrol, who has over 20 years of experience, was most recently the CEO of Tune Money, a start-up that aims to deliver low-cost financial products in South-East Asia.

### 10 INDIAN FIRMS IN 25 BEST LARGE WORKPLACES IN ASIA

India offices of MNCs like DHL, Google and Marriott ranked among the top workplaces in Asia, while as many as 10 Indian companies including Lupin, M&M and InterGlobe Enterprises made it to the list under the '25 Best Large Places to Work' category.

The best multinational workplaces in Asia include - DHL, Omnicom, Google, EMC, Marriott, NetApp, Hyatt, MARS, American Express and SAP. Interestingly, the Indian offices of 8 out of these 10 MNCs made it to the list.

### INDIA SECOND BIGGEST INVESTOR IN LONDON

India has emerged as the second biggest investor in London after the US with country's tech firms investing in the British capital at an unprecedented rate. The figures showed that Indian companies are the second biggest investor in London, ahead of China and Japan, but behind the US.

### MARUTI EXTENDS CEO KENICHI AYUKAWA'S TENURE BY 3 YEARS

Country's largest carmaker Maruti Suzuki extended the tenure of its Managing Director and CEO Kenichi Ayukawa by another three years. The board of directors of the company approved the re-appointment of Ayukawa as Managing Director and CEO for a period of three years with effect from April 1, 2016.

### NIPPON LIFE AGREES TO RAISE 49% STAKE IN RELIANCE MF

Japanese financial services giant Nippon Life is set to increase its stake in Reliance Capital Asset Management (RCAM) to 49 per cent. Nippon Life Insurance Company has agreed to

increase its stake in RCAM from the existing 35 per cent to 49 per cent in two or more tranches.

#### **RELIANCE DEFENCE, THALES SIGN DEAL FOR SONARS, COUNTER-MINING**

Anil Ambani-led Reliance Defence has signed an exclusive accord with the global aerospace, defence and transportation major Thales for making in India sonars for surface ships and submarines, as also mine warfare and mine counter-measure equipment, sources said. In all, the agreement is eyeing immediate deals worth around Rs 10,000 crore.

#### **WIPRO PICKS UP MINORITY STAKE IN US-BASED EMAILAGE**

Country's third largest software firm Wipro has picked up a minority stake in US-based Emailage Corporation, for an undisclosed sum. This investment is in line with Wipro's strategy to participate in the external innovation ecosystem, for which the company has set up Wipro Ventures, it added.

#### **INDIA GROWTH ESTIMATE FOR 2016 TO 7.5% REVISED**

Morgan Stanley revised its growth forecast for India for 2016 to 7.5 per cent from 7.9 per cent previously and noted that the country's economy is expected to see tepid recovery largely owing to external factors.

#### **INFOSYS EXTENDS VISHAL SIKKA'S TERM AS CEO BY 2 YEARS**

Country's second largest IT firm Infosys has extended the tenure of its chief Vishal Sikka by nearly two years till March 2021, saying his initiatives have helped the company move towards reclaiming its industry leadership position.

#### **MALLYA RESIGNS AS UNITED SPIRITS CHAIRMAN; TO MOVE TO UK**

Liquor baron Vijay Mallya quit as Chairman of United Spirits -- a company set up by his family but now controlled by global liquor giant Diageo -- and would shift to UK even as his group firms fight the 'wilful defaulter' tags given by lenders.

#### **EXTRAMARKS EDUCATION TIES UP WITH INTEL EDUCATION**

Country's leading education service provider Extramarks Education and Intel Education, a worldwide leader in education technology solutions, have come together in a unique strategic collaboration to provide industry leading learning solutions aimed at transforming teaching and learning experiences in India.

#### **FDI NORMS RELAXED IN INSURANCE, PENSION, ARCS, STOCK EXCHANGES**

In the insurance and pension sectors, foreign investment will be allowed through automatic route for up to 49 per cent subject to the guidelines on Indian management and control, to be verified by the regulators. Earlier, foreign investment up to 26 per cent was allowed through automatic route. Similarly, 100 per cent FDI in Asset Reconstruction Companies (ARCs) will be permitted through automatic route.

#### **GOVT TO WIND UP NATIONAL MANUFACTURING COMPETITIVENESS COUNCIL**

Government approved winding up of National Manufacturing Competitiveness Council (NMCC), saying the Council has fulfilled the mandate for which it was constituted. The decision was taken at a meeting of the Cabinet Committee on Economic Affairs (CCEA) chaired by Prime Minister Narendra Modi.

#### **FIVE INDIAN WOMEN MAKE IT TO FORBES WORLD'S BILLIONAIRES LIST**

Five Indian women have made it to the Forbes list of world's richest people in the world. Indu Jain who chairs media conglomerate Bennett, Coleman & Co, was placed at the 549 rank globally. The grand dame of L'Oréal, Liliane Bettencourt and her children were ranked at the top among the richest women in the world.

#### **'AMAZON IS INDIA'S MOST TRUSTED ONLINE SHOPPING BRAND'**



World's largest e-retailer Amazon is India's most trusted online shopping brand followed homegrown Snapdeal and Flipkart, a survey said.

#### **TATA MOTORS TIES UP WITH BHARAT FORGE, GENERAL DYNAMICS FOR FICV PROGRAMME**

Home-grown auto major Tata Motors has tied up with Bharat Forge and US-based General Dynamics Land Systems (GDLS) for India's Rs 50,000-crore future infantry combat vehicle (FICV) project.

**MK SHARMA IS NEW USL CHAIRMAN**

The Diageo-controlled United Spirits (USL) announced the appointment of MK Sharma as its new chairman, a day after the embattled liquor baron Vijay Mallya resigned from the post.

**HPCL TO INVEST RS 45K CR BY 2020 IN REFINERY EXPANSION, INFRASTRUCTURE**

State-owned Hindustan Petroleum Corp Ltd (HPCL) plans to invest Rs 45,000 crore by 2020 in expansion of its Mumbai and Visakhapatnam refineries as well as augmenting its marketing infrastructure.

**SUPERTECH TO INVEST RS5,706 CR IN HARYANA**

Realty firm Supertech announced an investment of Rs 5,706 crore over 7 years to develop affordable housing and township projects in Haryana and generate 5,000 employment opportunities.

**UBER TO INVEST RS120 CRORE**

Taxi-hailing app Uber signed a pact with the Haryana Government, wherein it will invest Rs120 crore in technology based ride-sharing services. The memorandum of understanding (MoU) was signed at the Happening Haryana Global Investors Summit 2016.

**VIACOM18 TO LAUNCH OWN ONLINE VIDEO PLATFORM VOOT**

Viacom18, the joint-venture company between American broadcasting giant Viacom and the Network18 group is launching a new online video streaming service and app which will be called 'Voot' by the end of this month.

**OYO Rooms tied up with IRCTC**

OYO Rooms has tied up with the Indian Railway Catering and Tourism Corporation (IRCTC). The tie-up

aims to offer standardized accommodation and a convenient booking platform to rail travellers.

**Telecom Infra Project announced**

Facebook has announced the Telecom Infra Project, which will look at developing new and alternative technologies to build and deploy telecom infrastructure, with partners

including Aricent, HCL Technologies, Intel, Nokia and T-Mobile.

**ONGC approved an investment of Rs. 5050 crores**

The Public sector oil major ONGC has approved an investment of Rs 5,050 crore in Tripura for drilling of wells and creation of surface facilities to produce 5.1 mmscmd gas from the states fields.

**AGREEMENTS/MOU SIGNED****Indian Railways Ties Up With ISRO For Route Surveys**

The Indian Railway Ministry has announced that it has signed an agreement with the Indian Space Research Organisation (ISRO). The agreement will leverage the space technology for providing the passenger information in all trains. With the help of this tie up Railways will assets and help the new route alignments.

**MOU for crop science signed**

**Department of Biotechnology**, Ministry of Science and Technology and a consortium of top UK research institutions signed an MoU for establishment of a joint India-UK collaboration programme in **crop science**.

**MOU signed between CII & Dubai Exports**

With the aim to **strengthen India-UAE economic ties**, Confederation of Indian Industry (CII) has signed an MoU with Dubai Exports to boost trade and explore business opportunities.

**India and Armenia signed agreement for Agriculture Sector**

**India and Armenia** have signed an agreement for cooperation in the **agriculture sector**. A memorandum of understanding (MoU) was signed by Agriculture Minister Radha Mohan Singhand Armenian Agriculture Minister Sergo Karapetyan.

**Memorandum of Understanding between India and Bahrain**

The Union Cabinet chaired by the Prime Minister Narendra Modi has given its approval for a Memorandum of Understanding (MoU) between India and Bahrain on cooperation for prevention of human trafficking especially trafficking in women and children; rescue, recovery, repatriation and re-integration of victims of trafficking. The

MoU is expected to be signed during the Home Ministers upcoming visit to Bahrain in the first week of April 2016.

#### India and Nepal inked 7 agreements

India and Nepal have signed seven agreements for cooperation in various fields. These agreements were signed at a summit meeting of Prime Minister Narendra Modi and his visiting Nepali counterpart KP Sharma Oli in New Delhi.

#### Agreement signed for Double Taxation of Income

Union Cabinet chaired by the Prime Minister Narendra Modi on 24 February 2016 gave approval to sign an agreement between India and Maldives for the avoidance of double taxation of income from international air transport.

#### BSNL Jumps Into Video-On-Demand Service

State run telecom firm BSNL has decided to offer video-on-demand services to their 2 crore+ customers pan-India. They have announced partnership with Tata Sky to kickstart their operations right away.

#### India Signs Raptor MoU To Save Birds Of Prey

To conserve several species of birds Government has signed 'Raptor MoU' - a Memorandum of Understanding (MoU) on conservation of birds of prey in Africa and Eurasia. The 'Raptor MoU' extends its coverage to 76 species of birds of prey, out of which 46 species, including vultures, falcons, eagles, owls, hawks, kites, harriers, etc. also occur in India.

#### Reliance Jio to Offer free Wi-Fi at 6 stadiums For T20 World Cup



Mukesh Dhirubhai Ambani is an Indian business magnate lead Reliance Jio Infocomm Limited has announced to offer free Wi-Fi services across 6 stadiums in the country ahead of the T-20 World cup.

#### NTPC Signs MoU For Research With IIT Delhi

NTPC and the Indian Institute of Technology, Delhi, have signed a memorandum of understanding for research and development in areas of mutual interest such as simulation and modelling, heat transfer and thermal process, artificial intelligence, solar and renewable integration, and other such areas.

#### Indian Railways Signs Agreement With Bajaj Power

Bajaj Power Generation Company has signed an agreement with the Indian Railways for electrification of the Lalitpur-Udaipura rail section under the public private partnership (PPP).

#### CII Signs MoU With Dubai Exports To Boost Trade

With the aim to strengthen India-UAE economic ties, Confederation of Indian Industry (CII) has signed an MoU with Dubai Exports to boost trade and explore business opportunities.

#### Prasar Bharati Signs Historical MoU With EBC

Prasar Bharati has signed a MoU with Empresa de Brazil Comunicacao (EBC) in connection with several broadcast related activities including exchange of news, programmes and co-production. The MoU was signed between Prasar Bharati Chief Executive Officer Jawhar Sircar and EBC Vice President Mr Mario in Brasilia, Brazil.

#### India And Sweden Signed MoU On Technical Cooperation For Railway

The ministry of railways signed a memorandum of understanding (MoU) with the government of Sweden for technical cooperation. The main objective of the MoU, signed by Sweden's ministry of enterprise and innovation, is cooperation between the two countries to promote efficiency and sustainability and achieve concrete results with regard to bilateral trade, investment and technology transfer.

## COMMITTEES

#### Ratan Tata to head Indian Railway Innovation Committee

Suresh Prabhu, Minister of Railway has announced Ratan Tata to head the Indian Railway Innovation Committee. The main aim is to carry out detailed analysis leading to optimized investment decisions and operations.

#### Mahesh Kumar Singla committee constituted to consider ST status to six communities of Assam

Union Government constituted a committee to consider Scheduled Tribe status to six Communities of Assam. The committee will be headed by Special Secretary (Internal Security) Ministry of Home Affairs, Mahesh Kumar Singla. The committee will recommend the modalities for granting of

Scheduled Tribe status to six Communities namely Koch Rajbongshi, Moran, Matak, Tai Ahom, Chutia and Adivasi (Tea Tribes) in Assam.

#### **Amit Mitra named chairman of GST committee of state FMs**

The Finance Minister of West Bengal Amit Mitra on 19 February 2016 was named the chairman of the Empowered Committee of State Finance Ministers on Goods and Services Tax (GST). Mitra will succeed Kerala Finance Minister K M Mani who had to resign in November 2015 over corruption charges.

## NEW APPOINTMENTS

#### **Ritu Beri appointed as an Advisor for Khadi Promotion**

Ace fashion designer Ritu Beri has been appointed as the advisor for Khadi promotion. she will do her best to make Khadi "a global fabric to reckon" with.

#### **Vishvas Vidu Sapkal Appointed High Commissioner of India to Fiji**

Vishvas ViduSapkal currently Deputy Chief of Mission in Embassy of India, Cairo, has been appointed as the next High Commissioner of India to the Republic of Fiji.

#### **Indians Scholar Appointed As VC of Canberra University**

Indian scholar H. Deep Saini has been appointed as the next Vice-Chancellor of the University of Canberra. H. Deep Saini, who is currently a Vice-President of the University of Toronto, is all set to take up the position on Sept 1, 2016. He will succeed Professor Stephen Parker AO.

#### **Altico Capital names Naina Lal Kidwai as Non-Executive Director**

Mumbai based Non-banking financial company Altico Capital India has appointed former HSBC India chairperson Naina Lal Kidwai as an independent non-executive director.

#### **Egyptian Diplomat Ahmed Abul Gheit Named As Secretary General Of Arab League**

The Arab League's 22 member states have picked veteran Egyptian diplomat Ahmed Abul-Gheit to head the body. Its ministerial meeting held in Cairo, Egypt. He will succeed Nabil El-Araby.

#### **Tapan Chand Elected AAI Chief**

Aluminium Association of India elected Tapan Chad as AAI chief of the metal governing body. Prior to his appointment he was serving chairman and Managing Director of National Aluminium Company.

#### **Sun Pharma Signs MS Dhoni As Brand Ambassador For Revital H**



Sun Pharmaceutical Industries Limited has appointed Indian Cricketer and Captain MS Dhoni as the Brand ambassador for its top selling health supplement Revital H.

#### **Kangana Ranaut Has Become The Brand Ambassador Of Reebok India**

The renowned Bollywood actress Kangana Ranaut has announced as the brand ambassador of Reebok India. On the occasion the actress has also launched the new campaign of the brand titled "Be More Human".

#### **Shakuntala Gamlin Is New Arunachal CS**

A 1984- batch IAS officer Shakuntala Doley Gamlin has been appointed as Chief Secretary of Arunachal Pradesh she replacing Ramesh Negi.

#### **S Rao Will Take Over As The New Chairman And Public Interest Director Of BSE**

Sudhakar Rao will be the new Chairman of BSE and new Public Interest Director announced by BSE. He is going to replace Mr. S Ramadorai as Mr. Ramadorai has retired from the position of its Chairman.

#### **Sunil Sabharwal Re Appointed As Alternate Executive Director At IMF**

Independent investor Sunil Sabharwal has become the first Indian American to occupy a key administration post as Alternate Executive Director at the IMF. Mr. Sabharwal is re nominated by US President Barack Obama.

#### **Vice Admiral Atul Kumar Jain Takes Over As Chief Of Staff, Eastern Naval Command**

Vice Admiral Atul Kumar Jain took over as the Chief of Staff of the Visakhapatnam. He succeeds Vice Admiral Bimal Verma who has been transferred as Commander-in-Chief of Andaman & Nicobar Command at Port Blair.

**Mrugank Paranjape Appointed As MCX MD**

Multi Commodity Exchange announced the appointment of Mrugank Paranjape as MD & CEO of the exchange. He will succeed Manoj Vaish. The exchange has also re-designated Parveen Kumar Singhal, the present Joint Managing Director as President & Whole Time Director with effect from April 1.

**Hashim Thaci Elected As President Of Kosovo**

Hashim Thaci, Foreign Minister of Kosovo has been elected as the President of Kosovo by the members of Parliament of the country in the 3rd round. Mr. Thaci succeeded Atifete Jahjaga in the voting held in Pristina.

**Dinesh Sharma Appointed As Chairman Of Governing Council Of IFAD**

Dinesh Sharma, Additional Finance Secretary, Department of Economic Affairs and India's Governor to the International Fund for Agriculture Development (IFAD) was unanimously elected as the Chairperson of the Governing Council of IFAD for a period of two years in its 39th Session held in Rome, Italy.

**Naveen Patnaik re-elected as BJD President**

Odisha Chief Minister Naveen Patnaik was formally declared elected as the President of the Biju Janata Dal (BJD) for the 7th consecutive term.

**Justice Dinesh Maheshwari Appointed the Chief Justice of Meghalaya HC**

Justice Dinesh Maheshwari has sworn in as the Chief Justice of the Meghalaya High Court. He was administered the oath as Chief Justice by state Governor V. Shanmuganathan.

**KN Vyas Takes Over As Director Of BARC**

Scientist and Associate Director KN Vyas, Reactor Projects Group of the BARC replaced Dr. Sekhar Basu, Chairman, Atomic Energy Commission and secretary to the GOI, Department of Atomic Energy. The Appointments Committee of the Cabinet has approved Vyas' name for a period of 3 years.

**Mortaza Set To Become UNDP's Goodwill Ambassador**

Bangladesh limited overs captain Mashrafe Bin Mortaza is set to be named as the United Nations Development

Programme's (UNDP) "national goodwill ambassador for youth".

**Rahul Taneja Appointed As Chief People Officer of Jet Airways**

India's 2nd largest airline Jet Airways India Ltd named Rahul Taneja as its chief people officer, responsible for shaping the operations and performance of the group. He will join the Executive Management Committee that has been tasked by the Board of Directors to drive the company's growth and future strategy.

**Udai Kumar Appointed As Full Time MD And CEO Of MSEI**

Metropolitan Stock Exchange of India (formerly MCX Stock Exchange) has appointed its interim Managing Director & CEO Udai Kumar as MD & CEO after receiving necessary approvals from securities regulator SEBI.

**Vinay Kumar Singh Appointed As MD Of NCRTC**

Indian Railway Officer Vinay Kumar Singh has been appointed as Managing Director of National Capital Region Transport Corporation (NCRTC).

**Faustin Archange Touadera Elected Central Africa President**

Faustin Archange Touadera, a former prime minister and Maths teacher standing as an independent, has been elected president of the Central African Republic.

**Christine Lagarde Appointed As MD of IMF For A Second Term**

Christine Lagarde (60) from France has been appointed as the Managing Director (MD) of the International Monetary Fund (IMF) for a second five-year term. Her new term will start on 5th July 2016 till 2021.

**Kalikhho Pul Sworn In As Arunachal Pradesh Chief Minister**

Congress Leader, Kalikhho Pul, 46, has sworn in as the 9th Chief Minister of Arunachal Pradesh after Governor JP Rajkhowa used his discretionary powers to appoint him.

- The Indian Government has appointed three information commissioners in the Central Information Commission (CIC). They are **Amitava Bhattacharyya, Bimal Julka, & Divya Prakash Sinha.**
- **Ashwini Nangia** has been appointed as the Director of the CSIR-National Chemical Laboratory, Pune.

- **Michael Pesch:** IT giant Infosys appointed Michael Pesch as Chief Executive Officer (CEO) of Infosys Consulting Holding AG, effective April 1 2016.
- **Yoichiro Ueno:** Japanese auto maker Honda Motor Company announced that it had appointed Yoichiro Ueno as the President and Chief Executive Officer (CEO) of its car operations in India.
- **H. L Dattu:** Former Chief Justice of India (CJI) Handyala Lakshminarayanawamy Dattu was selected as the next Chairperson of National Human Rights Commission (NHRC) on 23 February 2016. 65-year-old Justice Dattu will have tenure of five years.
- **Jonathon Sinclair Neal:** Expedia, the online travel company has appointed Jonathon Sinclair Neal as the Chief Executive Officer of AAE Travel.
- **Amar Singh:** from Indian-origin Sikh Community has been appointed the Police Commissioner of the Capital city of Malaysia.
- **Faustin Archange Touadera** has won the 2016 Presidential election of Central African Republic (CAR). He defeated **Georges Anicet Dologuele** of Union for Central African Renewal Party.

## OBITUARIES

### Former Lok Sabha Speaker PA Sangma Passes Away



Purno Agitok Sangma, who was the Lok Sabha Speaker from 1996 to 1998 and one of the co-founders of Nationalist Congress Party passed away following a heart attack.

### VETERAN FORWARD BLOC LEADER ASHOK GHOSH DIES

Senior most leader of the Left movement in Bengal and one of the senior most surviving in the country veteran All India Forward Bloc leader Ashok Ghosh died. He was 94.

### Shehnai Exponent Ustad Ali Ahmad Hussain Khan Passed Away

Famous Shehnai exponent Ustad Ali Ahmad Hussain Khan passed away in Kolkata, West Bengal. He was 77. He was suffering from kidney related problem and hospitalized from the past few days.

### Paul Daniels, TV Magician, Dies Aged 77

Television magician Paul Daniels has died aged 77 after being diagnosed with a brain tumour.

### Anita Brookner, Booker Prize-Winning Author, Dies Aged 87

Anita Brookner, the Booker prize-winning British author and renowned art historian, has died at the age of 87. She won the Booker in 1984 for her novel Hotel du Lac.

### Brazilian Musician Nana Vasconcelos Passed Away

Renowned Brazil musician Nana Vasconcelos has passed away. He was suffering from lung cancer. He was 71. He was a 8 time Grammy Award winner.

### George Henry Martin "The Beatless Producer" Passed Away

The legendary music producer George Henry Martin has passed away in England. He was 90 years old. He was popularly known as the "Fifth Beatle".

### Email Inventor Ray Tomlinson Dies At 74

Ray Tomlinson, the inventor of email has passed away. He was 74. His invention included the ground-breaking use of the @ symbol in email addresses, which is now standard.

### Renowned Singer And Actor Kalabhavan Mani Passed Away

Renowned Malayalam actor and folk singer Kalabhavan Mani passed away in Kochi on Sunday. He was 45. He had bagged national special jury award in 2000 for his performance in Malayalam film Vasanthiyum Lakshmiyum Pinne Njaanum.

### American Actress Nancy Reagan died At 94

Nancy Davis Reagan was an American actress and the wife of the 40th President of the United States, Ronald Reagan. She died At 94

### Pat Conroy, Prince of Tides And Great Santini Author, Dies At 70

Donald Patrick "Pat" Conroy was a New York Times bestselling author who has written several acclaimed novels and memoirs. Two of his novels, The Prince of Tides and The Great Santini, were made into Oscar-nominated films.

### Congress MLA R. Venkat Reddy Passes Away

Telangana Congress Former Minister Ramreddy Venkat Reddy passed away yesterday. He was undergoing with the

treatment for cancer He was 72. Mr. Reddy was a 5 time MLA from Khammam District.

#### **Singer Joey Feek Died**

Singer Joey Feek, whose final months battling cervical cancer died at the age of 40. Joey + Rory were an American country & bluegrass duo composed of singer-songwriters.

#### **Legendary Film Archivist P.K.Nair Passed Away**

P.K.Nair, the founder director of the National Film Archive of India has passed away. He was 86. He was instrumental in archiving several landmark Indian Films such as Dadasaheb Phalke's " Raja Harishchandra " and " Kaliya Mardan".

#### **Veteran Left Chief Ashok Ghosh Lifeless**

Veteran All India Forward Bloc (AIFB) leader and senior-most leader of the Left Front in West Bengal, Ashok Ghosh passed away recently. He was 94.

#### **George Kennedy, the Oscar Winning Actor Passed Away**

George Kennedy, who has passed away recently, was one of America's most recognizable and versatile character actors. He was 91 year old.

#### **Tamil Comedy Actor Kumarimuthu Passed Away**

Famous Tamil Comedy actor Kumarimuthu died in Chennai. He was 77. He was in politics as the celebrity faces of Karunanidhi headed Dravida Munnetra Kazhagam (DMK) Party.

#### **Singer Bhuvaneshwari Mishra Passed Away**

Renowned Odissa singer Bhuvaneshwari Mishra passed away following a cardiac arrest in New Delhi. She was 67. She was a renowned classical and playback singer.

#### **Italian Novelist Umberto Eco Passed Away**

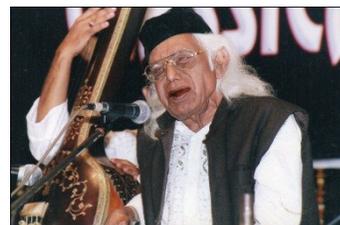
Italian author Umberto Eco has died aged 84. He was a philosopher who wrote best-selling novels including "The Name of the Rose".

#### **Renowned Novelist Harper Lee Passes Away**

Harper Lee, the author of the classic novel To Kill a Mockingbird, has died in her hometown of Monroeville, Alabama, US. The Pulitzer Prize-winning writer was 89.

#### **Eminent Vocalist Ustad Abdul Rashid Khan Passes Away**

Veteran Hindustani classical vocalist Ustad Abdul Rashid Khan passed away in Kolkata, West Bengal. He was 107. Rashid Khan, the oldest performing musician, was awarded a Padma Bhushan in 2013.



#### **Nihal Ahmed Maulavi Mohammed Usman passed away:**

Socialist leader and former Maharashtra Minister Nihal Ahmed Maulavi Mohammed Usman today passed away in Nashik following age-old ailments.

#### **BK Garudachar passed away**

India's oldest first-class cricketer BK Garudachar, who represented Mysore (as Karnataka was called till 1974), United Province and Bombay, died in Bangalore.

## AWARDS

#### **TIFAC Conferred With Nari Shakti Puraskar**

President Pranab Mukherjee has conferred prestigious Rani Lakshmi Bai Award (Nari Shakti Puraskar 2015) to Technology Information, Forecasting & Assessment Council (TIFAC) for its work under the scheme KIRAN-IPR for women empowerment in R&D through IPR training.

#### **Tikka Shatruijit Singh Knighted With Top French Award**

Tikka Shatruijit Singh, chief representative in Asia for French multinational LVMH (Moët Hennessy-Louis Vuitton) has been conferred with the prestigious Knight of the Legion of Honour for his "extraordinary work in the exchanging the French lifestyle and Indian culture with each other."

#### **Aryabhata Award 2013**

Former Scientific Adviser to Defence Minister and ex-DRDO chief Dr Avinash Chander received the prestigious Astronautical Society of India's Aryabhata Award 2013.

#### **Global CSR Excellence & Leadership Awards:**

GVK Biosciences has bagged the Global CSR Excellence & Leadership Awards in the category of Best Environment-

Friendly Project. The award has been given for its 'Go Green, Grow Green' plantation drive.

#### **Knight of the Order of Arts and Literature (The Chevalier de l'Ordre des Arts et Lettres) by French**

An Indian-origin art lover and playwright Ismail Mahomed from South Africa has been knighted by the French government for his lifelong devotion to the promotion of arts. He was bestowed with Knight of the Order of Arts and Literature (The Chevalier de l'Ordre des Arts et Lettres) by French Ambassador Elisabet Barbier in Johannesburg.

#### **Remi Award 2016**

Tamil film Kanavu Variyam has won the prestigious 2016 Remi Award in the United States. The film has been directed and produced by a Chennai-based techie Arun Chidambaram and Karthik Chidambaram.

#### **66th Berlin International Film Festival**

The National award winning Malayalam film 'Ottal' has been named the best children's film at the 66th Berlin International Film Festival and honored with the Crystal Bear award in the 'Generation KPlus' section.

#### **63rd annual Golden Reel Awards**

Famous sound designer Resul Pookutty became the first Asian to win the award for Best Sound for documentary India's Daughter at the Motion Picture Sound Editors' (MPSE) 63rd annual Golden Reel Awards.

#### **Lifetime Achievement Award for Sagar Sarhadi**

Renowned scriptwriter Sagar Sarhadi will be honoured with the Lifetime Achievement Award at the second edition of the International Film Festival of Prayag (IFFP).

#### **NTPC Bags Poll Based Investor Communication Award**

NTPC has been conferred the Research Investor



Communication Award among the "Large Corporates" category. Director Finance of the Company Shri K. Biswal, received the award

at a ceremony held at BSE in Mumbai.

#### **Kerala Tourism's Responsible Tourism Campaign Wins Golden City Gate Award**

Kerala Tourism's new campaign on responsible tourism has bagged the prestigious Golden City Gate Award at the world's

leading travel trade show, ITB in the German capital of Berlin. Titled 'New Worlds', the multimedia campaign containing three short films.

#### **France Highest Honour "Legion d'Honneur" To Saudi Prince**

President Francois Hollande has awarded the Legion d'Honneur, France's highest honour, to visiting Saudi crown prince Mohammed bin Nayef. Nayef was cited for his "efforts in the fight against terrorism and extremism."

#### **Dogri Poetess Padma Sachdev Awarded Krutitava Smagra Samman**

Renowned Dogri poetess and writer Padma Sachdev has been awarded Krutitava Smagra Samman for 2015. The award was given by the Bharatiya Bhasha Parishad in Kolkata, West Bengal.

#### **Amrita Patel Gets Mahindra Lifetime Achievement Award**

Dr Amrita Patel has been conferred with the Mahindra Samridhi India Agri Lifetime Achievement Aear-Krishi Shiromani Samman in New Delhi. The award is given for her purposeful contribution that made a difference in the field of agriculture to increase productivity and rural prosperity.

#### **Award for Srinivasan K. Swamy**

The Advertising Club Madras conferred its 1st Distinguished Service Award on Srinivasan K Swamy, Chairman and Managing Director, R K Swamy BBDO for his outstanding contribution to the advertising industry.

#### **Ratan Thiyam Selected For 11th META Lifetime Achievement Award**

Veteran playwright and director Ratan Thiyam has been selected for prestigious Lifetime Achievement Award for 2016 at the 11th edition of Mahindra Excellence in Theatre Awards (META).

#### **Randeep Hooda Honoured With Achievement Award In Australia**

Randeep Hooda, the Bollywood actor was felicitated by Melbourne based South Asian community members at a function in Australia. On the occasion, the 39-year-old actor, also shared his memories of the time he spent as an international student in the country.

**Stevie Wonder Honoured With Global Green Hero Award**

Veteran singer Stevie Wonder was honoured with Global Green Hero award. The award has been given at the 13th Annual Global Green USA Pre Oscar party.

**Bihari Puraskar 2015 To Be Given To Dr. Bhagwati Lal Vyas**

Poet Dr Bhagwati Lal Vyas has been chosen for the 2015 Bihari Puraskar for his anthology of Rajasthani poems 'Katha Sun Aawe Hai Sabad' Published in 2010.

**Three British scientists win 2016 Brain Prize**

A Toronto-based researcher is among three scientists receiving the world's most valuable Grete Lundbeck European Brain Research Prize. The scientists are: Timothy Bliss, Richard Graham Michael Morris & Graham Leon Collingridge.

**Delhi's Indira Gandhi International Airport World's Best In Its Category for Second Year.**

New Delhi's Indira Gandhi International Airport (IGIA) has bagged the Best Airport Award (under class X cities category) for 2013-14. The Award given in the category of the world's best airport for the year 2014, under the category of handling 25 to 40 million passengers per annum, officials announced.

**Sanjay Leela Bhansali, Ranveer Singh To Get Dinanath Mangeshkar prize**

On April 24 every year, the Mangeshkar clan — led by Lata Mangeshkar — honour artistes to commemorate their father Pandit Dinanath Mangeshkar's death anniversary. This year, the Pandit Dinanath Mangeshkar award will be given to filmmaker Sanjay Leela Bhansali and actor Ranveer Singh, at a function to be held in Pune.

**Lyricist Sameer Anjaan Enters Guinness Book Of World Records**

Bollywood's popular lyricist Sameer Anjaan has made into the Guinness Book of World Records this year. He was rewarded for writing the most number of songs for Bollywood films. The official record states that Sameer wrote 3,524 songs for 650 Bollywood movies, as verified on December 15, 2015.

**Bollywood Actress Vidya Balan Awarded With The Pride Of Kerala Award**

Bollywood actress Vidya Balan has been awarded the 'Pride of Kerala' award by the World Malaya lee Council and Kairali

TV. National Award-winning actress Vidya Balan, who hails from Kerala, is 38 year old.

## DEFENCE NEWS

**IBSAMAR 2016 held**

The fifth edition of IBSAMAR 2016 trilateral naval exercise between Brazil, India and South Africa kicked off in Goa. IBSAMAR is abbreviated as India-Brazil-South Africa Maritime. This is the for the first time the exercise is held in India as all the previous editions were held in South Africa since it began in 2006.

**India, again the world's largest arms importer**

India continues to remain the world's largest arms importer, accounting for 14% of the global arms imports in the 2011-2015 time frame. It was revealed by report on international arms transfers released by a global think-tank, Stockholm International Peace Research Institute (SIPRI). Top arms importers are: India (14%), China (4.7%), Australia (3.6%), Pakistan (3.3%), Vietnam (2.9%) and South Korea (2.6%).

**46 Countries To Participate In 9th Defence Expo In Goa**

Defexpo India 2016, Goa will be the ninth in the series of Land, Naval and Internal Homeland Security Systems Exhibition held every alternate year. More than 977 companies and 46 countries have registered for the upcoming Defence Expo scheduled in Goa from 28th to 31st March.

**Agni-I ballistic missile successfully test-fired by India from Abdul Kalam Island In Odisha**

Agni-I ballistic missile with nuclear capability was successfully test-fired by India. The sophisticated nuclear weapon was used for trial purpose on Abdul Kalam island off the coast of Odisha. The nuclear missile has the capability of striking targets at a distance of 700 kilometres. The weapon has already been adopted by the

Indian Army for defence purpose.

### Women Fighter Pilots Advised To Put Off Motherhood By 4 Years

India's first three women fighter pilots have been advised by the IAF to restrain from motherhood for the next four years. The three women, Bhawana Kanth, Mohana Singh and Avani Chaturvedi are the trainees who qualified for the fighter stream after it was thrown open to women in October 2015.

### India And Indonesia To Conduct Joint Training Exercise "Garuda Shakti IV"

Garuda Shakti, the 4th edition of joint training exercise between India and Indonesia will be hosted by Indonesia. The 13-day long joint exercise held at Magelang, Indonesia. It aimed at building and promoting positive relations between the two Armies of India and Indonesia.

### Indian Firm To Partner Israel For Anti-Tank Missiles

Rafael of Israel and Kalyani group are setting up a joint venture (JV), Kalyani Rafael Advanced Systems, to build weapon systems in India. It could start with the production of Spike Anti-Tank Guided Missile (ATGM) which the Indian Army is in the process of procuring.

### Mega Military Exercise Of ASEAN Plus Countries Begins In Pune

The multinational mega Military Exercise Force 18 conducted by Indian Army conducted at Pune, Maharashtra. Theme of the exercise is 'Humanitarian Mine Action' (HMA) and 'Peacekeeping Operations' (PKO). The exercise concluded with around 300 participants from 18 ASEAN (Association of Southeast Asian Nations) Plus countries.

### 7th Lamitye Military Exercise Concluded

The 7th joint military exercise between India and Seychelles military forces concluded at Victoria Mahe Island in Seychelles with a final attack scenario where suspected pirates had escaped at Cap Ternay. This edition of joint military drill, will be concluding phase of the drill.

### India Inks \$3.1 Billion Deals For Apache And Chinook Helicopters With US

Indian Defence Ministry has issued an order worth Rs 22,000 crores for purchase of helicopters, CH-47 Chinook and AH-64 Apache, which will be inducted in the forces soon.

### India And Myanmar Sign Standard Operating Procedure On Joint Patrol

The 4th edition of India-Myanmar Coordinated Patrol (IMCOR) was conducted jointly by ships of both navies along the International Maritime Boundary Line in the Andaman Sea since 2013.

## RANKS & REPORTS



### India Ranks 90 In Terms Of Energy Security

India has been ranked at the 90th place in a list of 126 countries in terms of Energy Security compiled by World Economic Forum (WEF). The

list is topped by Switzerland followed by Norway on the basis of the ability to deliver secure, affordable and sustainable energy. The Report was prepared by GEAPI in collaboration with Accenture.

### 90% of domestic workers excluded from social protection: ILO

The International Labour Organisation (ILO) on 14 March 2016 announced that around 90 percent of domestic workers in the world are excluded from social protection. It was revealed by the ILO in its Social Protection Policy Paper 16 entitled Social protection for domestic workers.

### Reliance Industries, Tata Motors among top 10 sustainable firms:

The Sustainable Plus survey on 14 March 2016 revealed that RIL, Vedanta, Mahindra & Mahindra, Tata Motors and Wipro are among the top 10 companies, which have received the tag of India's most sustainable firms. These companies were followed by ITC, Tata Power, Tata Chemicals, Hindustan Zinc and ACC.

### Women at Work: Trends 2016 report released by International Labour

Women at Work: Trends 2016 International Labour Organization (ILO) released a report titled Women at Work: Trends 2016. The Women at Work report provides the latest ILO data on women's position in labour markets and examines the factors behind these trends and explores the policy drivers for transformative change. According to the

report, between 1995 and 2015, the global female labour force participation rate decreased from 52.4 to 49.6 percent.

#### WEF released Global Energy Architecture Performance Index Report 2016

World Economic Forum (WEF) on 2 March 2016 released the fourth edition of the Global Energy Architecture Performance Index Report 2016 (EAPI) compiling 126 countries. India has been ranked at 90th position which is topped by Switzerland.

## SCIENCE AND TECHNOLOGY

#### ISRO tested high-thrust cryogenic engine CE-20



The Indian Space Research Organisation (ISRO) has successfully tested high-thrust cryogenic engine CE-20 of the GSLV Mark 3 (LVM3) rocket for the upper stage at its Propulsion Research Center in Mahendragiri, Tamil Nadu lasted for 640

seconds and paved the way for the first developmental flight of the GSLV Mark 3 in December 2016.

#### Minuteman 3 launched

The US Inter Continental Ballistic Missile Minuteman 3 was launched from Vandenberg Air force Base in California. The missile blasted off at 34 PM towards west base of Los Angeles.

#### 'Ksheer-Scanner' launched

Dr. Harsh Vardhan dedicated Systems for Detection of Adulteration and analysis of Milk. He pointed that our country ranks number one across the world for milk production, contributing to about 18% of the world's total milk. But it is feared that over 60% of the milk is contaminated due to malpractices in milk supply chain which includes dilution with unsafe water. The CSIR's 'Ksheer-Scanner' instantaneously detects the above-identified adulterants in milk.

#### New Jupiter like planets discovered

Scientists have discovered **five new Jupiter-like planets** that are similar in characteristics to our solar system's biggest

planet. The newly discovered planets were designated as WASP-119 b, WASP-124 b, WASP-126 b, WASP-129 b and WASP-133 b. They orbit very close to their host stars and hot compared to Jupiter.

#### Europe-Russia Mission Blasts Off On Hunt For Life On Mars

ExoMars (Exobiology on Mars) is a large Mars mission to search for biosignatures of Martian life, past or present. It is an astrobiology mission by the European Space Agency (ESA) in collaboration with the Russian Federal Space Agency (Roscosmos). ExoMars 2016, the first of a two-phase Mars exploration, will see an orbiter hoisted from Kazakhstan on a Russian Proton rocket.

#### India To Launch 25 Foreign Satellites This Year

India will launch 25 foreign satellites belonging to seven countries. The list is topped by the USA in 2016-17. In written response to a question, Jitendra Singh, minister of state in Prime Minister's Office (PMO) which looks after the department of space, said till date 57 foreign satellites from 21 countries have been launched using the Polar Satellite Launch Vehicle (PSLV).

#### Five Healthcare ATMs Launched in 4 States

Five healthcare ATMs have come up in four states. Those states are MP, Himachal Pradesh, Odisha and Andhra Pradesh. These ATMs are going to come up under a Health Ministry pilot that combines telemedicine with a rudimentary free drugs programme.

#### Scientists create first biological supercomputer

Scientists have created the world's first biological supercomputer which is energy efficient and it hardly heats up at all. It uses proteins instead of electrons to relay information around a circuit. The proteins are powered by adenosine triphosphate (ATP). That is what an international team of researchers led by Prof. Nicolau, the Chair of the Department of Bioengineering at McGill, believe.

#### Scott Kelly, American Astronaut, Returns to Earth After 340 Days in Space

NASA (National Aeronautics and Space Administration) astronaut and Expedition 46 Commander Scott Kelly and his Russian counterpart Mikhail Kornienko returned on Earth. After a historic 340-day mission aboard the International Space Station. It was a science experiment to study the

effects of microgravity on the human body, so that NASA can prepare astronauts for longer flights to Mars and beyond.

#### **Cabinet Approves Arrangement For Establishment Of Indo-French Joint Committee on Science & Technology**

Indo-French joint committee to promote cooperation in science & technology under this agreement the Joint Committee would identify the synergise and define priorities for Indo-French cooperation in science, technology and innovation aimed to achieve economic and social development through research, development and innovation.

#### **ISRO Successfully Tested Cryogenic Engine Of GSLV Mark 3 Rocket**

The Indian Space Research Organisation (ISRO) has successfully tested high-thrust cryogenic engine CE-20 of the GSLV Mark 3 (LVM3) rocket for the upper stage at its Propulsion Research Center in Mahendragiri, Tamil Nadu lasted for 640 seconds and paved the way for the first developmental flight of the GSLV Mark 3 in December 2016.

#### **ENVIS Portal : Launched By Union Government**

Prakash Javadekar, Union Minister of Environment, Forest and Climate Change has launched Environment Information System (ENVIS) portal and mobile application. It was launched on the sidelines of the national interaction-cum-evaluation workshop for Environment Information System. The Government has reiterated the need to reach out to the people on environmental issues and creating more awareness among them.

## **INTERNATIONAL NEWS**

#### **Afghanistan's National Women's Cycling Team nominated for 2016 Noble Peace Prize**

The Afghanistan's National Women's Cycling Team has been nominated by a group of Italian MPs for the 2016 Nobel Peace Prize for their dedication. Afghanistan's National Women's Cycling Team is among the first Afghan girls to be riding bikes socially.

#### **Japan to Stipulate 80% Emission Cut Goal By 2050**

The Japanese government will stipulate a long-term goal of cutting greenhouse gas emissions by 80 percent by 2050

from current levels. The move follows the international climate agreement reached in Paris in Dec. 2015.

#### **Pakistan's parliament, the first to run on solar power**

Pakistan parliament became the first in the world to completely run on solar power, a venture supported by close ally China with a whopping \$55 million funding.

#### **Vienna is the best place to live in the world**

Austria's capital Vienna is the best place in the world to live, according to an international survey on quality of life that has no Indian city in the top 100. Baghdad is the worst, and London, Paris and New York do not even make it into the top 35, according to international research into quality of life.



#### **Obama Signs North Korea Sanctions: WH**

US President Barack Obama signed off on new sanctions against North Korea to punish the reclusive Asian nation for its provocative recent nuclear test and rocket launch.

#### **INDIA VISIT AIMED TO BUILD TRUST: OLI**

Nepal Prime Minister K P Oli said that the main focus of his first visit to India, taking place in "complex and special circumstances", is on building trust after differences cropped up in bilateral ties due to protests over the new Constitution.

#### **TOP COMMANDERS OF ANTI-ISIS COALITION MEET IN KUWAIT**

Top military commanders from 30 nations fighting the Islamic State group gathered in Kuwait to discuss ways to defeat the jihadists who occupy large areas in Syria and Iraq. Chief of staff of host country Kuwait, General Mohammad al-Khader, urged increased efforts to defeat extremists worldwide.

#### **N KOREA CONFIRMS NEW MILITARY CHIEF AFTER REPORTED EXECUTION**

North Korean state media confirmed the country has a new military chief. Ri Myong-Su, former People's Security Minister, was referred to as "chief of the Korean People's Army General Staff" when the Korean Central News Agency

reported on an army exercise guided by leader Kim Jong-Un. His predecessor Ri Yong-Gil was reportedly executed early this month in what would be the latest in a series of purges and executions of top officials.

#### PRINCE WILLIAM, KATE TO ARRIVE IN INDIA ON APR 10

Britain's popular Royal couple Prince William and Kate Middleton will embark on their maiden visit to India on April 10 that will also include a trip to the iconic Taj Mahal, as part of their efforts to build an "enduring relationship" with the country.

#### KAMALA HARRIS MAY BECOME FIRST INDIAN-AMERICAN SENATOR IN US

Kamala Harris, California's Attorney General, may become the first Indian-American Senator in the US Congress after she easily won the coveted Democratic Party endorsement for the seat.

#### GULF MONARCHIES DECLARE LEBANON'S HEZBOLLAH 'TERRORIST' GROUP

Gulf monarchies declared Lebanon's Hezbollah a "terrorist" group, in the latest regional move against the Shiite organisation fighting in support of Syria's regime. The six-member Gulf Cooperation Council took the action against Hezbollah members because of "hostile actions of the militia who recruit the young people (of the Gulf) for terrorist acts.

#### GEN JOHN W MICK IS HEAD OF US-NATO FORCES IN AF

US Army General John W "Mick" Nicholson has taken command of US and Nato forces in Afghanistan, inheriting America's longest war and a vicious insurgency. He took over from US Army General John F Campbell.

#### NEPAL TO HAVE FIRST WOMAN CHIEF JUSTICE

Nepal is set to have its first woman chief justice with a judicial body today recommending Sushila Karki's name for the top post, months after the country got its first woman President and Speaker. A meeting of the Judicial Council recommended the name of Karki, the senior-most judge in Nepal's Supreme Court, for appointment as the next chief justice of the country.

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#### TRUMP APPOINTS TOP SENATOR AS HIS NATIONAL SECURITY ADVISER

Republican presidential frontrunner Donald Trump has appointed a top American Senator as head of his national security team. In a statement, Trump said Jeff Sessions, who has advised him on issues such as trade and immigration, will serve as his National Security Advisory Committee.

#### IRAN BILLIONAIRE ZANJANI SENTENCED TO DEATH

Iran's billionaire tycoon Babak Zanjani has been sentenced to death for corruption, after a long trial in which he was accused of fraudulently pocketing \$2.8 billion.

#### INDIA, NEPAL GEAR UP TO SAVE THE TIGER

Senior forestry officials from India and Nepal are meeting in New Delhi to chalk out a joint strategy to save the tiger population along the trans-boundary corridor after 14 of the felines were killed during the last one year.

#### INDIA, US TO DEEPEN COLLABORATION AGAINST LET, JEM

Ahead of Prime Minister Narendra Modi's visit to Washington this month-end for the Nuclear Security Summit, India and the United States have agreed to deepen their collaboration in dealing with the threat posed by terror outfits Lashkar-e-Tayyeba and Jaish-e-Mohammed.

#### SUU'S DRIVER HTIN KYAW IS MYANMAR'S PRESIDENT

Myanmar got its first civilian president in decades after lawmakers elected a close aide of Aung San Suu Kyi, who is expected to hold the real reins of power in the formerly junta-run nation. Htin Kyaw, 69, hailed his elevation to the top post as "Suu Kyi's victory", a clear nod to her plan that he serve as a proxy for the Nobel laureate who is constitutionally barred from becoming president.



#### DEUBA NEW NEPALI CONG PREZ, SHASHANKA KOIRALA GENERAL SECY

Three-time Nepal Prime Minister Sher Bahadur Deuba has been elected the new president of Nepali Congress, the country's largest democratic party, in a run-off poll, succeeding late premier Sushil Koirala. Deuba, 69, was elected the Nepali Congress chief during the 13th National

General Convention. The post was vacant after the death of 79-year-old Koirala last month.

Shashanka Koirala, son of Nepal's first elected Prime Minister BP Koirala, has been elected the new general secretary and Sita Devi Yadav the treasurer of the party.

## SUMMITS

### TWO-DAY GLOBAL WIN CONFERENCE FROM MAR 17

To deliberate on how to shape a gender-friendly future that benefits all, over 250 leaders from various sectors across the world will gather at the two-day Global Women's International Networking (WIN) Conference to be held from March 17 in the national capital. This is the second conference to be held in India after 2013.

### INVESTORS' SUMMIT BEGINS IN GURGAON

The first two-day 'Happening Haryana Global Investors Summit 2016' has kicked off in Gurgaon. 12 Countries are participating in this summit. Besides several Union Ministers, a number of leading entrepreneurs and MNCs are taking part in it.

### NATIONAL CONFERENCE OF WOMEN LEGISLATORS HELD IN DELHI

A two-day National Conference of Women Legislators held in New Delhi. The theme of the event was the Women Legislators-Building Resurgent India. The conference was inaugurated by the President Pranab Mukherjee.

### Vibrant North East event concluded

The three-day long **Vibrant North East** event concluded in **Guwahati, Assam**.

### Exhibition on the Coin and Currency of India held

Union Finance Minister Arun Jaitley inaugurated an **exhibition on the Coin and Currency of India** at the Great Hall of North Block in New Delhi. The exhibition would help in knowing the history of evolution of currency in the country.

### 59th Session of Commission on Narcotic Drugs inaugurated in Vienna

The 59th Session of Commission on Narcotic Drugs (CND) was inaugurated on 14 March 2016 in Austria's capital Vienna. The 9-day long session seeks to promote a comprehensive

understanding of the world drug problem and evolve appropriate strategies to deal with it.

### 60th Session of Commission on the Status of Women inaugurated in New York

The 60th Session of Commission on the Status of Women was inaugurated. The 11-day long session will take place at the United Nations headquarters in New York, the USA.

### 13th meeting of Broadband Commission for Sustainable Development held in Dubai

The 13th meeting of Broadband Commission for Sustainable Development held in Dubai, United Arab Emirates (UAE). The meeting was held to promote the power of broadband networks and services for the 2030 Agenda for Sustainable Development.

### Maritime India Summit 2016 to be held in Mumbai

Maritime India Summit 2016 (MIS 2016), the maiden flagship initiative of the Union Ministry of Shipping, will be organised from 14 to 16 April 2016 at Bombay Convention and Exhibition Centre, Mumbai. Republic of Korea is the partner country for MIS 2016.



### 4th World Congress of Biosphere Reserves inaugurated at Lima

4th World Congress of Biosphere Reserves was inaugurated on 14 March 2016 at Lima in Peru. The event will be held from 14 March to 17 March 2016 to address different issues related to the Sustainable Development Goals (SDGs) and the Post 2015 Development Agenda.

## BOOKS AND AUTHORS

### Who was Shivaji? authored by Govind Pansare

Book titled "Who was Shivaji?" authored by Govind Pansare came in news in first week of March 2016. It came in news because of Shiv Jayanti, the birth anniversary of Chhatrapati Shivaji Maharaj, which was celebrated across Maharashtra on 19 February 2016. Introduction of the book was written by Anirudh Deshpande and Afterword was written by Prabhat Patnaik.

**Gandhi: An Illustrated Biography authored by Pramod Kapoor**

Gandhi: An Illustrated Biography authored by Pramod Kapoor was in news in March 2016. It is a biography of Mahatma Gandhi who played a key role in Indian independence movement.

**Fixed! Cash and Corruption in Cricket authored by Journalist Shantanu Guha Ray**

Fixed! Cash and Corruption in Cricket authored by journalist Shantanu Guha Ray was in news in the first week of March 2016. It examines the allegations of corruption against players, cricket administrators and bookies alike.

## IMPORTANT DAYS

**World Consumer Rights Day 2016 observed with theme Antibiotics off the Menu**

The World Consumer Rights Day (WCRD) 2016 was observed on 15 March 2016. The day was celebrated by the Consumers International (CI) across the world with the theme Antibiotics off the Menu.

**World Kidney Day 2016 observed**

World Kidney Day (WKD) was observed globally on 10 March 2016 with the theme Kidney Disease & Children. Act Early to Prevent It! The theme was taken up to inform parents, caregivers, young patients, policy makers and the general public of the importance of identifying and treating childhood kidney diseases.

**International Women's Day observed**

International Women's Day was observed across the world on 8 March 2016. This year's theme for the Day is "Planet 50-50 by 2030: Step It Up for Gender Equality". The campaign theme for the day is #Pledge For Parity.

**National Safety Day and National Safety Week observed**

National Safety Day was observed across India on 4 March 2016. The day is annually organised by the National Safety Council (NSC) to commemorate its establishment and enhance the safety awareness among people.

**World Wildlife Day 2016 observed**

World Wildlife Day was observed on 3 March 2016 across the world. 2016 theme is "The future of wildlife is in our hands", with African and Asian elephants being the main focus of global campaigns.

**Zero Discrimination Day observed**

Zero Discrimination Day was observed across the world on 1 March 2016. The day was observed with the theme - Stand Out. Zero Discrimination Day is an opportunity to join together against discrimination and celebrate everyone's right to live a full and productive life with dignity.

**National Science Day observed**

National Science Day was observed across India on 28 February 2016. The theme for the National Science Day 2016 is Scientific Issues for Development of the Nation. The day is observed annually to mark the discovery of the Raman Effect (phenomenon of scattering of photons) by Indian physicist Sir Chandrasekhara Venkata Raman on 28 February 1928.

**World Day of Social Justice observed**

World Day of Social Justice was observed on 20 February 2016 with the theme A Just Transition - environmentally sustainable economies and societies.

**International Mother Language Day observed**

International Mother Language Day 2016 was celebrated across the world on 21 February 2016. The theme for the year 2016 is Quality education, language(s) of instruction and learning outcomes.

- **February 21** - International Mother Language Day, The theme of the 2016 International Mother Language Day is "Quality education, language(s) of instruction and learning outcomes."
- **February 22** - World Scout Day, World Thinking day
- **February 23** - World Peace and Understanding Day
- **February 24** - Central Excise Day
- **February 28** - National Science Day; the theme for the National Science Day 2016 is "Scientific Issues for Development of the Nation".

## VISITS

### PM of Nepal visited India

Nepal's PM was on a six day state visit to India. The first foreign trip by Khadga Prasad Sharma Oli as PM indicates that relations between the two nations are getting back on track.

Ranjit Rae, the Indian ambassador to Nepal, said the trip would help normalise relations.

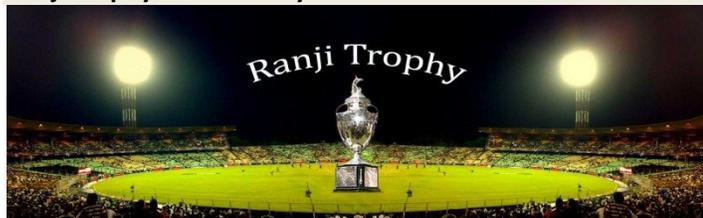
Oli planned to visit Mumbai, India's financial capital, to meet business leaders as his country is in desperate need of investment in infrastructure and the industrial sector. The main aim of the PM's visit to India will be to strengthen friendly ties between the two countries.

### List of Agreements and MOUs exchanged during the visit:

1. MoU on utilization of US\$ 250 million Grant component of GOI's Assistance package for Post-earthquake reconstruction assistance.
2. MoU on strengthening of road infrastructure in the Terai area of Nepal.
3. MoU between Nepal Academy of Music and Drama and Sangeet Natak Academy.
4. Letters of Exchange on Transit Routes: (i) Transit between Nepal and Bangladesh through Kakarbitta Banglabandh corridor (ii) Operationalization of Vishakhapatnam Port.
5. Letters of Exchange on Rail Transport: (i) Rail transport to/from Vishakhapatnam (ii) Rail transit facility through Singhabad for Nepal's Trade with and through Bangladesh.
6. Inauguration of MuzaffarpurDhalkebar transmission line [Initial supply of 80 MW, to be augmented to 200 MW by October 2016 and 600 MW by December 2017.
7. Establishment of Eminent Persons Group.

## SPORTS NEWS

### Ranji Trophy 2016 won by Mumbai



Mumbai won the Ranji Trophy with an innings and 21 run victory over Saurashtra. It won the trophy for the first time in three seasons.

### Lalita Babar, the sports person of the year

India's top female Long-distance runner Lalita Babar was named as the Sports Person of the Year in the India Sports Awards 2015 in a ceremony organised by the Federation of Indian Chambers of Commerce and Industry (FICCI) with the support of the Sports Ministry.

### McCullum scored the fastest test century

Brendon McCullum has blasted the fastest century in Test history in his 101st and final match for New Zealand before retiring.

### Jaypee Punjab Warriors who the Hockey India League

The Jaypee Punjab Warriors has won the fourth edition of Coal India Hockey India League (HIL) title 2016. The Jaypee Punjab Warriors finally struck gold to become third-time lucky as they clinched their Hockey India League (HIL) title at the Birsa Munda Hockey Stadium in Ranchi.

### Renjith Maheswary won silver medal in Doha, Qatar

Triple jumper Renjith Maheswary won silver medal at the 7th Asian Indoor Athletics Championships in Doha, Qatar. His silver helped India to increase its medal tally to five in the championships. India's Kumaravel Prem Kumar bagged silver in long jump at the 7th Asian Indoor Athletics Championships in Doha, Qatar. Prem Kumar cleared a creditable 7.92m in his final attempt to win the silver.

### MALLYA QUILTS AS RCB DIRECTOR

IPL franchise Royal Challengers Bangalore has written to the Indian cricket board (BCCI), intimating them about Vijay Mallya's resignation from the post of Director of Royal Challengers Sports Private Limited (RCSPL). The new chairman of Royal Challenger Bangalore is Amrit Thomas, President and Chief Marketing Officer of United Spirits.

### IPL FROM APRIL 9

Mumbai Indians will open their title defence at home against new entrants Rising Pune Supergiants to kick-start the 2016 Indian Premier League on April 9.

The tournament opener will take place at the Wankhede Stadium, it was announced on Thursday. The final on May 29 will also be played in Mumbai.

**KABADDI PLAYER SHOT DEAD**

A national-level Kabaddi player was shot dead by two armed assailants in Rithal village of Rohtak, with murder captured on a CCTV installed at a house near crime spot. The 24-year-old player Sukhvinder Singh was returning home after practice when he was shot dead on Tuesday evening.

**Sharapova failed dope test**

Five-time Grand Slam tennis champion Maria Sharapova has announced that she failed a dope test at the Australian Open, and isn't sure what punishment she'll face for her "huge mistake." The former world No 1 from Russia said a change in the World Anti-Doping Agency's banned list for 2016 led to an inadvertent violation, for which she will be "provisionally suspended" by the International Tennis Federation.

**ANGELO REPLACES MALINGA AS LANKA SKIPPER**

All-rounder Angelo Mathews replaced Lasith Malinga as captain of the Sri Lankan cricket team for the ICC World Twenty20 but the injury-ravaged pacer managed to retain his place in the side.

**DAN WINS ALL ENGLAND C'SHIP**

Lin Dan earned his sixth All England badminton title when he routed Chinese teammate Tian Houwei 21-9, 21-10 in the final on Sunday. The final lacked any tension, as Lin bolted to 4-0, enjoyed the same margin at the changeover and pulled away.

**PIRATES ARE NEW CHAMPS**

Patna Pirates' players on Saturday to win the third season of Star Sports Pro Kabaddi League title, beating defending champions U Mumba 31-28 here in a highly contested and competitive final. Till the final whistle, the crowd — along with the players and support management of both the teams — were on the edge of their seat, biting their nails as to who would lift the coveted trophy.

**WARRIORS CLINCH MAIDEN HIL TITLE**

Jaypee Punjab Warriors were crowned Hockey India League champions as they clinched their maiden title after thrashing Kalinga Lancers 6-1 in a lop-sided summit clash here on Sunday. The Punjab-based side were third time lucky as they had finished runners-up in the last two editions. They lost to Delhi Waveriders in 2014 and to Ranchi Rays last year.

The Player of the Tournament Award of `50 lakh was awarded to Rupinder Pal Singh of Delhi Waveriders.

**JITU STRIKES GOLD AT ISSF WORLD CUP**

A fit-again Indian shooter Jitu Rai edged past a strong field, including former Olympic champion Pang Wei, to clinch the 50m pistol gold at the ISSF World Cup.

**A BATTING GREAT, T20 PIONEER LOSES BATTLE AGAINST CANCER**

Former New Zealand cricket captain Martin Crowe has died of lymphoma aged 53, his family said on Thursday. Crowe was first diagnosed with aggressive follicular lymphoma in 2012 and after chemotherapy, he was thought to be in remission. But Crowe announced in September 2014 that the cancer, which he called "my friend and tough taskmaster," had returned.

**MOHUN BAGAN COACH SANJOY SUSPENDED**

The All India Football Federation today suspended Mohun Bagan coach Sanjoy Sen for eight matches and slapped a fine of Rs 10 lakh for making derogatory statements against the AIFF.

**MAYOOKHA BAGS GOLD**

Long jumper Mayookha Johny fetched India a gold in the long jump event at the Asian Indoor Athletics Championships here on Saturday. Mayookha controlled the competition from the very outset and finished on top of the podium with a leap of 6.35m, an effort that propelled her to India's first Asian indoor title in the event.

**WAWRINKA WINS DUBAI TITLE**

Stan Wawrinka won the battle of the 30-year-olds by defeating Marcos Baghdatis of Cyprus 6-4, 7-6 (13) to win the Dubai Tennis Championships title Saturday.

Wawrinka, seeded second, had been two points from defeat in the Dubai tournament's first round to Sergiy Stakhovsky of Ukraine.

This is the third time that Wawrinka has played in Dubai. In his previous two visits, the Swiss never won a match.

**ROBERTS BEAT MYNENI TO WIN DELHI OPEN**

Struggling to cope with the windy conditions and an opponent for whom win or defeat was immaterial, Saketh Myneni suffered a tame defeat to end runner-up at the Delhi Open, here on Sunday. Fourth seed Myneni faded 3-6, 0-6 against Frenchman Stephane Roberts in the summit clash, which was over in under an hour at the DLTA Complex.

**RANA WINS GOLD IN NATIONAL CHAMPIONSHIPS**

London Olympian Basant Bahadur Singh Rana clinched the gold medal in men's 50km race walk event on the second and final day of the National Championships on Sunday. Delhi walker Rana clocked 4 hours seven minutes 24 seconds to finish first but he must have been disappointed as he could not touch the revised Olympics qualification time of 4:06:00 on a fast Jaipur course.

**INFANTINO CROWNED FIFA PRESIDENT**

Gianni Infantino pulled off a stunning victory on Friday to take over as FIFA president.



The Swiss official received 115 of the 207 eligible votes in the second round to earn a decisive majority over Sheikh Salman of Bahrain, who had

been the strong favorite entering the election.

The 45-year-old former lawyer saluted voters by patting his right hand over his heart, and had to compose himself before starting his acceptance speech.

**SANIA-HINGIS' STELLAR STREAK ENDS**

Indian tennis star Sania Mirza and Martina Hingis' 41-match winning streak came to halt after the world number one women's doubles pair went down fighting in the quarterfinals of the Qatar Open, here. Sania and her Swiss partner Mirza lost 2-6, 6-4, 10-5 to Russian pair Elena Vesnina and Daria Kasatkina.

The last time the Indo-Swiss pair, who have won three doubles Grand Slams in a row, had lost was way back in Cincinnati last August.

**TSOTSOBE INVESTIGATED IN FIXING CASE**

South African fast bowler Lonwabo Tsotsobe is reportedly under investigation in a match-fixing case that has already seen one of the country's former international players

banned for 20 years. Tsotsobe told the Wisden India website on Thursday that he had handed over his bank account and cellphone records after being asked for them by national federation Cricket South Africa.

**INDIA NO 2 TEST SIDE; AUSSIES LEAD THE PACK**

Assured of the number two Test team spot at the annual cut-off date on April 1, India is set to bag \$5 lakh, even as the country held the top spot in the T20 format.

Though India are sitting on top of the table in the shortest form of the game, they are not assured of continuing in the same position as a lot of T20 cricket is still to be played before the cut-off date.

India, who claimed number one spots in 2010 and 2011, earned a total of 110 points, finishing just two points behind leaders Australia's 112 in the Test rankings.

Australia grabbed the No. 1 spot after winning the Christchurch Test by seven wickets, which has given them a 2-0 series win against New Zealand and they will now pocket a cash award of \$1 million.

In ICC T20 rankings, India are currently leading the field with South Africa occupying the second position.

**KHANNA NAMED PRINCIPAL ADVISOR OF WT20 COMMITTEE**

Senior BCCI vice-president and top DDCA official CK Khanna has been appointed as principal advisor of the Supervisory Committee constituted by Justice Mukul Mudgal for the ICC World T20 matches at the Feroz Shah Kotla stadium here.

"Mr Justice Mukul Mudgal (Retd) has appointed Sr DDCA and BCCI vice-President C K Khanna as principal advisor to Supervisory committee constituted by him for T20 World Cup matches," DDCA vice-President Chetan Chauhan said in a release.

## SCHEMES

**RUSA Scheme to be implemented to improve Equity, Quality of Higher Education**

Central government is implementing the Centrally Sponsored Scheme of Rashtriya Uchchar Shiksha Abhiyan (RUSA) for providing financial support to proposals contained in State Higher Education Plan (SHEP) approved by the State Higher

Education Councils (SHECs) in order to achieve the objectives of equity, access and quality.

A total of 115 Universities and 1218 colleges have been approved by RUSA PAB for infrastructure grants. These approvals were accorded to the proposals included in the respective State Higher Education Plans (SHEPs).

#### **Piyush Goyal Announces Name 'UJALA' for LED-based Domestic Efficient Lighting Programme(DELDP)**

Shri Piyush Goyal Union Power Minister has announced name UJALA for the Light-emitting diode(LED) based Domestic Efficient Lighting Programme (DELDP). UJALA is acronym for Unnat Jyoti by Affordable LEDs for All. The target of programme is to replace 77 crore incandescent lamps with LED bulbs. Energy Efficiency Services Limited (EESL) is implementing it and is currently running successfully in over 120 cities across India.

#### **Mukhyamantri Santwana Harish Yojana launched by Karnataka Government**

Karnataka government has launched Mukhyamantri Santwana Harish Yojana to provide free medical treatment to road accident victims for the first 48 hours (2 days) in the nearest government or private hospital. The scheme has been named after Harish Nanjappa who had donated his eyes moments before his death. Under the scheme, Immediate medical relief would be provided to the victim during the Golden Hour with financial aid up to Rs 25,000 during the first 48 hours of treatment. Financial assistance to victims of road accidents will be provided across the state irrespective of their financial status or nationality.

#### **Suresh Prabhu Has Launched "Clean My Coach" Service**



Minister for Railways Suresh Prabhu has launched the 'clean my coach' service. The service allows a passenger to make request for a dirty coach to be swept and cleaned by sending an SMS on mobile number 58888 or by using an app or a designated website. Prabhu had announced

the scheme in the Rail Budget last month. As per the scheme for any cleaning requirement in the coach, passenger will have to send an SMS on a mobile number 58888.

#### **NITI Aayog Launches 'Women Transforming India' Campaign**

The NITI Aayog (GOIs premier think tank) has launched the Women Transforming India initiative on 8th March the International Women's Day in partnership with the UN in India and MyGov. Through this initiative the NITI Aayog seeks entries in the form of written essays or stories, preferably accompanied by photographs that set a context to the narrative. These stories should reflect new ground broken by women in empowering themselves or others.

#### **Project Mausam Of M/O Culture Aims To Explore Multi-Faceted Indian Ocean World**

Project Mausam is the initiative of Ministry of Culture which is to be implemented by the Archaeological Survey of India (ASI) as the nodal agency with research support of the Indira Gandhi National Centre for the Arts (IGNCA) and National Museum as associate bodies. This project aims to explore the multi-faceted Indian Ocean world collating archaeological and historical research in order to document the diversity of cultural, commercial and religious interactions in the Indian Ocean extending from East Africa, the Arabian Peninsula, the Indian Subcontinent and Sri Lanka to the Southeast Asian archipelago.

#### **Setu Bharatam Project launched by Modi**

Prime Minister Narendra Modi launched Setu Bharatam Project to make all national highways free of railway crossings by 2019. This project will be implemented by the Union Ministry of Road Transport and Highways. Under this project 208 places have been identified for construction of rail over-bridges (ROB) or underpasses under the project. More than 50 thousand crore rupees will be spent on the project.

#### **E-Tourist Visa Scheme extended to 37 more countries**

The Union Government has extended e-Tourist Visa Scheme to 37 more countries which increases the total to 150 countries. Union Government had launched this scheme in November 2014. It facilitates pre-authorization of Visa i.e. electronic travel authorisation given to foreigners prior to travel.

#### **Union Cabinet approved the establishment of Atal Innovation Mission and SETU in NITI Aayog**

The Union Cabinet has given its approval for establishment of Atal Innovation Mission (AIM) and Self Employment and Talent Utilisation (SETU) in NITI Aayog. This move seeks to

give substantial boost to the innovation ecosystem and to catalyse the entrepreneurial spirit in the country. AIM and AIM Directorate will be established that will help in implementation of mission activities in a focussed manner. Its headquarters will be in New Delhi.

#### National Rurban Mission launched in Chhattisgarh



PM Narendra Modi launched the National Rurban Mission (NRM) from Kurubhat in Rajnandgaon district of Chhattisgarh. The mission also known as

Shyama Prasad Mukherjee Rurban mission (SPMRM) aims to spur social, economic and infrastructure development in rural areas by developing a cluster of 300 Smart Villages over the next 3 years across the country.

## MISCELLANEOUS

#### Prime Minister Narendra Modi to inaugurate Krishi Unnati Mela in New Delhi

Prime Minister Narendra Modi inaugurate three-day 'Krishi Unnati Mela' providing information on new farm schemes and technologies that will help farmers double their incomes within the next few years. The fair will have separate workshops on key schemes like Pradhan Mantri Fasal Beema Yojana, e-agriculture marketing, integrated farming system, Pradhan Mantri Krishi Sichai Yojan, soil health and livestock issues.

World's first fast-acting anti-rabies drug Rabies Human Monoclonal Antibody (RMAb) will be launched in India. The drug has been developed by Pune-based Serum Institute of India (SII) and US-based MassBiologics of the University of Massachusetts Medical School.

#### M. S. Swaminathan Research Foundation to Establish a Research Chair in KISS

The MS Swaminathan Research Foundation has signed a MOU with Bhubaneswar -based Kalinga Institute of Social Sciences (KISS) to establish a Research Chair. The Chair will be named after MS Swaminathan, father of Indian Green Revolution for promoting knowledge and skill for empowerment for less privileged children in India.

#### SC Allows Pictures of governors, chief ministers and minister in govt advertisements

Supreme Court allowed the use of pictures of Chief Ministers, Governors and Cabinet ministers in the government's media advertisements. The SC had earlier ruled that the advertisements could only have pictures of the President, Prime Minister and the Chief Justice of India.

#### President Of India Inaugurates The Sesquicentennial Celebrations Of The High Court Of Judicature At Allahabad

President Pranab Mukherjee inaugurate the 150th anniversary celebrations of the Allahabad High Court. He will be accompanied by Chief Justice of India T.S. Thakur, more than six apex court judges and many judges from various high courts of different states.

#### River Information System Like ATC To Be Launched For Inland Waterways Traffic

The Government has launched a River Information System (RIS) between Haldia and Farakka stretch of the National Waterway-1 (NW-1). The system enhances swift electronic data transfer between mobile vessels and shore (Base stations) through advance and real-time exchange of information. RIS aims to streamline the exchange of information between waterway operators, regulators and users.

#### Alappuzha Backwaters To Get India's First Solar Ferry

A 75-seater solar-powered passenger ferry, the first of its kind in the country, is quietly taking shape at Aroor in Alappuzha district. The boat is expected to be commissioned within the next three months.

#### Other Current Affairs

1. India has filed a complaint against the United States decision to impose high fees L-1 and H-1B categories of temporary working visas in the World Trade Organisation (WTO).
2. Digital payments platform FreeCharge has partnered with Mexico-based chain of movie theatres, Cinopolis, that aims to provide its customers an easy to use and secure way of making payments.
3. Actress Sonakshi Sinha has become a Guinness World Records title-holder as she along with several other

women participated in an initiative to set a record for 'most people painting their fingernails simultaneously'.

4. The Rajya Sabha passed a landmark Real Estate Bill with a promise to secure the interests of homebuyers and developers in equal measure and remove corruption and inefficiency from the sector.
5. The Union Cabinet approved the proposal of the Ministry of Home Affairs to amend the Sikh Gurdwaras Act, 1925 through the Parliament retrospectively with effect from 8 October 2013.
6. The Union Cabinet chaired by the Prime Minister Narendra Modi has given its approval for signing and ratification of the Bay of Bengal Initiative on Multi Sectoral Technical and Economic Cooperation (BIMSTEC) Convention on Mutual Legal Assistance in Criminal Matters.
7. India and International Monetary Fund (IMF) have decided to set up South Asia Regional Training and Technical Assistance Centre (SARTTC) in New Delhi.
8. India and United States have launched the Fulbright – Kalam Climate Fellowship enabling Indian research scholars to work with American institutions in the field of climate change.
9. India Inc. is set to formally adopt the United Nations' (UN) agenda for the world's sustainable development and the 17 goals identified for its implementation. SDG will be evaluated, monitored and reported in a time-bound manner.
10. Japanese Carmaker Nissan has named Indian cricketer Rohit Sharma as their new global ambassador. Nissan also named West Indies all-rounder Andre Russell and New Zealand women's team captain Suzie Bates as its ambassadors.
11. The Ministry of Tourism in co-ordination with Ministry of Culture has launched the Swachh Paryatan mobile app in order to facilitate general public to communicate their complaints about any unclean area/garbage piles in and around tourist destinations.
12. The Ministry of Tourism in co-ordination with Ministry of Culture has launched the Swachh Paryatan mobile app in order to facilitate general public to communicate their complaints about any unclean area/garbage piles in and around tourist destinations.
13. 'Ek Bharat Shrestha Bharat' programme will be launched to link States and Districts in an annual programme that connects people through exchanges in areas of language, trade, culture, travel and tourism.
14. The Road to Resilience is an initiative of the World Bank, under which a team undertook a bus trip along the entire Indian coastline. The journey commenced on 10 January 2016 and ended on 15 February 2016.
15. Forbes released its inaugural 30 Under 30 Asia List in Singapore. The list included 300 young innovators, entrepreneurs and leaders across Asia in 10 categories who are under 30 years of age. From India, 56 were included in the list. Some of the prominent among them were –
  1. Sania Mirza (Tennis)
  2. Virat Kohli (Cricket)
  3. Saina Nehwal (Badminton)
  4. Shraddha Kapoor (Actress)
  5. Arunima Sinha (Mountaineer)
  6. Chaitanya Tamhane (Writer & Director)
  7. Raghav Verma (Co-founder Chaayos)
  8. Mehul Agrawal (Co-founder Cars24)
  9. Kanika Tekriwal (Co-founder JetSetGo)
  10. Ritesh Agarwal (Co-founder OYO Rooms); He also featured in Forbes 2016 30 Under 30 List
16. The Union Ministry of Health and Family Welfare decided to allow birth companions during delivery in public health facilities. The decision is aimed at reducing Maternal Mortality Ratio and Infant Mortality Rate in India.
17. Supreme Court of India ruled that the top officials and employees of private banks will be considered as public servants for the purposes of the Prevention of Corruption Act, 1988. With this, the investigating agencies like Central Bureau of Investigation (CBI) will be able to examine frauds and scams involving private banks operating in the country.

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ONE STOP PORTAL FOR THE CURRENT AFFAIRS

## Handy Notes Advanced Mathematics : Algebra

- $(a + b)^2 = a^2 + b^2 + 2ab$
- $(a - b)^2 = a^2 + b^2 - 2ab$
- $a^2 - b^2 = (a + b)(a - b)$
- $a^2 + \frac{1}{a^2} = \left(a + \frac{1}{a}\right)^2 - 2$
- $a^2 + \frac{1}{a^2} = \left(a - \frac{1}{a}\right)^2 + 2$
- $(a^2 + b^2 + c^2) = (a + b + c)^2 - 2(ab + bc + ca)$
- $(a + b)^3 = a^3 + b^3 + 3ab(a + b)$
- $(a^3 - b^3) = (a - b)(a^2 + b^2 + ab)$
- $(a - b)^3 = a^3 - b^3 - 3ab(a - b)$
- $(a^3 + b^3) = (a + b)(a^2 + b^2 - ab)$
- $a^3 + \frac{1}{a^3} = \left(a + \frac{1}{a}\right)^3 - 3\left(a + \frac{1}{a}\right)$
- $a^3 - \frac{1}{a^3} = \left(a - \frac{1}{a}\right)^3 + 3\left(a - \frac{1}{a}\right)$
- $a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ca)$   
If  $a + b + c = 0$   
 $a^3 + b^3 + c^3 = 3abc$
- $a^3 + b^3 + c^3 - 3abc = \frac{1}{2}(a + b + c)\{(a - b)^2 + (b - c)^2 + (c - a)^2\}$

### Trick 1

If  $a + \frac{1}{a} = k$   
Then  $a^2 + \frac{1}{a^2} = k^2 - 2$

### Trick 2

If  $a - \frac{1}{a} = k$   
Then,  $a^2 + \frac{1}{a^2} = k^2 + 2$

### Trick 3

If  $a + \frac{1}{a} = k$   
Then  $a^3 + \frac{1}{a^3} = k^3 - 3k$

### Trick 4

If  $a - \frac{1}{a} = K$

- If  $x + \frac{1}{x} = 6$ , then  $\frac{3x}{2x^2+2-5x}$  will be:  
(a)  $\frac{2}{3}$  (b) 0  
(c) 1 (d)  $\frac{3}{7}$
- If  $x + \frac{1}{x} = 3$  then the value of  $x^4 + \frac{1}{x^4}$  will be:  
(a) 49 (b) 47  
(c) 45 (d) 42
- If  $x = (\sqrt{2} + 1)$  and  $y = (1 - \sqrt{2})$ , then the value of  $(x^2 + y^2 + xy)$  will be:  
(a) 7 (b) 8  
(c) 6 (d) 5

$$a^3 - \frac{1}{a^3} = k^3 + 3k$$

### Trick 5

If  $a + \frac{1}{a} = k$   
 $a^5 + \frac{1}{a^5} = \left(a^2 + \frac{1}{a^2}\right)\left(a^3 + \frac{1}{a^3}\right) - \left(a + \frac{1}{a}\right)$

### Trick 6

If  $a + \frac{1}{a} = \sqrt{3}$   
Then  $a^3 + \frac{1}{a^3} = 0$   
Also  $a^6 + 1 = 0$  &  $a^6 = -1$

### Trick 7.

If  $a^2 + \frac{1}{a^2} = k$   
(i)  $a + \frac{1}{a} = \sqrt{k + 2}$   
(ii)  $a - \frac{1}{a} = \sqrt{k - 2}$

### Trick 8

If  $(x - a)^2 + (y - b)^2 + (z - c)^2 = 0$   
Then  $x = a, y = b, z = c$

Ex. If  $x^2 + y^2 + 4x + 4y + 8 = 0$ , then  $(x + y)$  is equal to

- (a) 1 (b) 0  
(c) 3 (d) -4

Sol. Given  $x^2 + y^2 + 4x + 4y + 8 = 0$

$(x + 2)^2 + (y + 2)^2 = 0$   
 $x = -2, y = -2$   
Then  $x + y = -2 - 2 = -4$

### Trick 9

If  $x + \frac{1}{x} = 2$   
Then  $x = 1$  (always)

### Trick 10

If  $x + \frac{1}{x} = -2$   
Then  $x = -1$  (always)

## QUIZ

- If  $a = -5, b = -6, c = 10$ , then the value of  $\frac{a^3 + b^3 + c^3 - 3abc}{(ab + bc + ca - a^2 - b^2 - c^2)}$   
(a) -1 (b) 1  
(c) 18 (d) 21
- If  $2^x = 3^y = 6^{-z}$ , then  $\left(\frac{1}{x} + \frac{1}{y} + \frac{1}{z}\right)$  is equal to:  
(a) 0 (b) 1  
(c)  $\frac{3}{2}$  (d)  $-\frac{1}{2}$
- If  $x + \frac{1}{x} = 2$  and  $x$  is a real number, then the value of  $x^{17} + \frac{1}{x^{19}}$  is:

- (a) 1 (b) 0  
 (c) 2 (d) -2
7. If  $x = \frac{4ab}{a+b}$  and  $a \neq b$ , then  $\frac{x+2a}{x-2a} + \frac{x+2b}{x-2b}$  will be:  
 (a) a (b) b  
 (c) 2ab (d) 2
8. If  $a^3 - b^3 = 56$  and  $a - b = 2$ , then the value of  $(a^2 + b^2)$  is  
 (a) -12 (b) 20  
 (c) 18 (d) -10
9. If  $x^4 + \frac{1}{x^4} = 23$ , then the value of  $(x - \frac{1}{x})^2$  will be--  
 (a) 7 (b) -7  
 (c) -3 (d) 3
10. If  $(a - b) = 3$ ,  $(b - c) = 5$  and  $(c - a) = 1$ , then the value of  $\frac{a^3+b^3+c^3-3abc}{a+b+c}$   
 (a) 17.5 (b) 20.5  
 (c) 10.5 (d) 15.5

**Solutions**

1. (d) Given  $x + \frac{1}{x} = 6$   
 $\Rightarrow \frac{3x}{2x^2+2-5x}$   
 $= \frac{3x}{x[(2x+\frac{2}{x})-5]}$   
 $\Rightarrow \frac{3}{2[x+\frac{1}{x}]-5} = \frac{3}{12-5} = \frac{3}{7}$
2. (b) Given  $x + \frac{1}{x} = 3$   
 So,  $x^2 + \frac{1}{x^2} = (x + \frac{1}{x})^2 - 2 = (3)^2 - 2 = 7$   
 Again squaring:  
 $\Rightarrow (x^2 + \frac{1}{x^2})^2 = 7^2$   
 $\Rightarrow x^4 + \frac{1}{x^4} + 2 = 49$   
 $\Rightarrow x^4 + \frac{1}{x^4} = 47$
3. (d);  $x = (\sqrt{2} + 1)$ , and  $y = 1 - \sqrt{2}$   
 $\therefore x^2 + y^2 + xy = x^2 + y^2 + 2xy - xy$   
 $= (x + y)^2 - xy$   
 $= (\sqrt{2} + 1 + 1 - \sqrt{2})^2 - (1 + \sqrt{2})(1 - \sqrt{2})$   
 $= (2)^2 - ((1)^2 - (\sqrt{2})^2)$   
 $= 4 - (-1) = 5$
4. (b); Given  $a = -5$ ,  $b = -6$  and  $c = 10$   
 $\therefore a + b + c = (-5) + (-6) + 10 = -1$   
 $\Rightarrow \frac{a^3+b^3+c^3-3abc}{ab+bc+ca-a^2-b^2-c^2}$   
 $\Rightarrow \frac{(a+b+c)(a^2+b^2+c^2-ab-bc-ca)}{-(a^2+b^2+c^2-ab-bc-ca)}$   
 $\Rightarrow \frac{-1}{-1} = 1$
5. (a) Given  $\rightarrow 2^x = 3^y = 6^{-z} = K$   
 $\Rightarrow 2 = K^{\frac{1}{x}}$ .....(i)  
 $\Rightarrow 3 = K^{\frac{1}{y}}$ .....(ii)  
 $\Rightarrow 6 = K^{-\frac{1}{z}}$

- $\Rightarrow 2.3 = K^{-\frac{1}{z}}$  .....(iii)  
 multiplying (i) and (ii)  
 $\Rightarrow 2.3 = K^{\frac{1}{x} + \frac{1}{y}}$  .....(iv)  
 From (iii) and (iv)  
 $\Rightarrow K^{\frac{1}{x} + \frac{1}{y}} = K^{-\frac{1}{z}}$   
 $\Rightarrow \frac{1}{x} + \frac{1}{y} = -\frac{1}{z} \Rightarrow \frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 0$
6. (c); If  $x + \frac{1}{x} = 2$  then  $x$  will be 1.  
 So,  $x^{17} + \frac{1}{x^{19}} = (1)^{17} + \frac{1}{(1)^{19}} = 1 + \frac{1}{1} = 2$
7. (d);  $x = \frac{4ab}{a+b}$   
 $\frac{x}{2a} = \frac{2b}{a+b}$   
 $\Rightarrow \frac{x+2a}{x-2a} = \frac{3b+a}{b-a}$ .....(i)  
 Similarly  $\Rightarrow \frac{x+2b}{x-2b} = \frac{3a+b}{a-b}$ .....(ii)  
 Adding (i) and (ii)  
 $\frac{x+2a}{x-2a} + \frac{x+2b}{x-2b} = \frac{3b+a}{b-a} + \frac{3a+b}{b-a}$   
 $= \frac{3b+a-3a-b}{b-a} = \frac{2b-2a}{b-a} = 2$
8. (b); Given:  
 $a^3 - b^3 = 56$   
 $\Rightarrow (a - b)(a^2 + b^2 + ab) = 56$   
 $\Rightarrow a^2 + b^2 + ab = 28$  .....(i)  
 $\Rightarrow (a - b)^2 = (2)^2$   
 $\Rightarrow a^2 + b^2 - 2ab = 4$ .....(ii)  
 subtracting (i) and (ii)  
 $3ab = 24$   
 $ab = 8$   
 $\Rightarrow$  putting the value of  $ab = 8$  in (i)  
 $\Rightarrow a^2 + b^2 = 8 = 28$   
 $\Rightarrow a^2 + b^2 = 20$
9. (d) Given :  
 $x^4 + \frac{1}{x^4} = 23$   
 Or  $\Rightarrow (x^2 + \frac{1}{x^2})^2 = 23 + 2$   
 $\Rightarrow x^2 + \frac{1}{x^2} = \sqrt{25} = 5$   
 $\Rightarrow (x - \frac{1}{x})^2 = 5 - 2$   
 $\Rightarrow (x - \frac{1}{x})^2 = 3$
10. (a); Given:  
 $a - b = 3$ ,  $b - c = 5$  and  $c - a = 1$   
 We know that  
 $\Rightarrow \frac{a^3+b^3+c^3-3abc}{a+b+c}$   
 $a^3 + b^3 + c^3 - 3abc = \frac{(a+b+c)}{2} [(a - b)^2 + (b - c)^2 + (c - a)^2]$   
 $\frac{a^3+b^3+c^3-3abc}{a+b+c} = \frac{1}{2} [(a - b)^2 + (b - c)^2 + (c - a)^2]$   
 $= \frac{1}{2} [(3)^2 + (5)^2 + (1)^2]$   
 $= \frac{9+25+1}{2} = \frac{35}{2} = 17.5$

## Practice Questions Set : Infinitives

1. He did not (a)/ know to swim (b)/ in the (c)/ running water. (d)/ No error (e)
2. Looking at (a)/ the present condition (b)/ we had better called (c)/ the police. (d)/ No error (e)
3. With his (a)/melodious song (b)/ Arijit Singh made everyone (c)/to praise him. (d)/ No error (e)
4. It is quite difficult (a)/ for them to enjoy (b)/ their work because (c)/ they do nothing but sitting idle. (d)/ No error (e)
5. His father (a) /asked me to (b)/ visit my office (c)/for consultation. (d)/ No error (e).
6. I helped (a)/ Sameer to solve (b)/ the (c)/problem. (d)/ No error (e).
7. I taught (a)/Harsh to drive (b)/ a car during his (c)/ summer vacation. (d)/ No error (e).
8. I wonder he (a)/ was able to complete (b)/ his work (c)/ on time. (d)/ No error (e).
9. I would prefer to die (a)/ like a soldier (b)/ rather than (c)/ living like a traitor. (d)/ No error (e).
10. You dare not (a)/ to (b)/ harm (c)/my brother. (d)/ No error (e).
11. The benevolent merchant (a)/ let the cobbler (b)/ to set up his shop (c)/ outside his shop. (d)/ No error (e).
12. I really (a)/ want to (b)/ know to crack (c)/ the IAS examination. (d)/ No error (e).
13. I don't (a)/ know to (b)/enter (c)/the class. (d)/No error (e).
14. He need not (a) / to bring (b)/ his matriculation certificate (c)/ in his written test. (d)/ No error (e).
15. He remembered sending (a)/ a card (b)/ to her grandfather (c)/ on New Year. (d)/ No error (e).
16. She keeps (a)/ forgetting about bringing (b)/ his book back (c)/ which she had borrowed from him last month. (d)/ No error (e).
17. Raman tried to lifting (a)/ the heaviest dumbbell, (b)/ but it was too heavy (c)/to be lifted by him. (d)/ No error (e).
18. I forgot to bring (a)/ my lunchbox (b)/because I was (c)/ in a hurry. (d)/ No error (e).
19. I remembered buying (a)/ grocery so I (b)/ bought some (c)/ from the market. (d)/ No error (e).
20. I tried to catch (a)/ the train, but (b)/ I couldn't (c)/run fast enough. (d)/ No error (e).
21. I was teaching (a)/ and I (b)/ stopped having (c)/a cup of coffee. (d)/ No error (e).
22. I regret telling (a)/you that the flight (b)/ has been delayed (c)/ due to bad weather. (d)/ No error (e).
23. He can't (a)/ afford (b)/ having (c)/ a new car. (d)/ No error (e).
24. Sagar offered (a)/ **to drove** (b)/ us to (c)/ the supermarket. (d)/ No error (e).
25. The guard (a)/ refused to let (b)/ them to enter (c)/ the building. (d)/ No error (e).
26. The company regrets (a)/ to inform employees (b)/ that the Mumbai office (c)/ will close next year. (d)/ No error (e).
27. Yesterday, Sanjeev (a)/ asked everyone (b)/ to crack (c)/ the RRB exam.(d) / No error (e).
28. "To erring (a)/ is human, (b)/to forgive is divine."(c)/ Said the teacher. (d)/ No error (e).
29. I would (a)/ like you (b)/ to see (c)/ him tonight. (d) / No error (e).
30. I stopped (a)/studying (b)/, to eating (c) / lunch. (d)/ No error (e).

### ANSWERS:

1. (b); Add 'how' between 'know' and 'to swim'.
2. (c); Use 'call' in place of 'called'.
3. (d); Use 'praise' in place of 'to praise'.
4. (d); Use 'sit' in place of 'sitting'.
5. (b); Add 'when' after me.
6. (e); No error
7. (b); Use 'how' in between 'Harsh' and 'to'.
8. (a); Add 'how' after 'wonder'.
9. (d); Use 'live' in place of 'living'
10. (b); Remove 'to'
11. (c); Remove 'to'
12. (c); Add 'how' in between 'know' and 'to'
13. (b); Add 'when' after 'know'
14. (b); Remove 'to'
15. (a); Use 'to send' in place of 'sending'
16. (b); Use 'to bring' in place of 'about bringing'
17. (a); Use 'lift' in place of to 'lifting'
18. (e); No error
19. (a); Use 'to buy' in place of 'buying'
20. (e); No error
21. (c); Use 'to have' in place of 'having'
22. (a); Use 'to tell' in place of 'telling'
23. (c); Use 'to have' in place of 'having'
24. (b); Use 'drive' in place of 'drove'
25. (c); Remove 'to'
26. (e); No error
27. (c); Add 'how' before 'to'
28. (a); 'To err' should be used in place of 'to erring'
29. (e); No error
30. (c); Use 'eat' in place of 'eating'

## Practice Questions Set : Gerunds

- There aren't (a) /much (b)/ chances of me (c)/ being there (d)/No error (e)
- I am thinking (a)/of invite (b)/ him to (c)/ my son's birthday. (d)/No error (e)
- He was (a)/ informed (b)/ about the (c)/ Rajiv Gandhi's being assassinated. (d)/No error (e)
- He *was* (a) / *accused of* (b)/ **murder (c)/ two old men.** (d)/No error (e)
- Rahul is used to (a)/ play (b)/ cricket after (c)/ he comes from school. (d)/No error (e)
- I miss (a)/work in the finance sector (b)/ I wish I were able to get (c)/ my old job back. (d)/No error (e)
- She deferred (a) / to pay (b)/ her old (c)/ telephone bills. (d)/No error (e)
- Can you touch (a) / your toes (b)/ without bending (c)/ your knees? (d)/No error (e)
- He acknowledged of (a)/receiving (b)/ my help (c)/ in his assignment. (d)/No error (e)
- He was fined (a)/ for driven (b)/ over the (c)/ speed limit. (d)/No error (e)
- He went (a)/ back to (b)/ teach his daughter (c)/ for her exam. (d)/No error (e)
- He can't (a)/ tolerate wait for (b)/anyone because of (c)/ his busy schedule. (d)/No error (e)
- Her results (a)/ justify (b)/ the taking of strict actions(c)/ which were suggested by all her teachers. (d)/No error (e)
- I cannot (a)/ recall met (b)/ her before (c)/ ever in my life. (d)/No error (e)
- We discussed (a)/ about going (b) /on holiday together (c)/ in January. (d)/No error (e)
- I remember (a)/ to go to temple (b)/ with my grandparents (c)/ when I was a child. (d)/No error (e)
- I told my sister that (a)/ we'd spent Diwali (b) /at Granny's house in 2000, (c)/ but she had forgotten going there. (d)/No error (e)
- He tried give up (a)/ smoking but he couldn't (b),/ so, he started (c)/using nicotine chewing gums. (d)/No error (e)
- He regrets to have (a)/ bad company due to which (b)/ even he is considered (c) /to be a bad guy. (d)/No error (e)
- Arman dislikes (a)/ to work (b) / in front of (c)/a computer all day. (d)/No error (e)
- Witnesses reported (a)/ seeing the thief (b)/ as he was climbing (c)/ out of the third-story window. (d)/No error (e)
- Manager appreciated (a)/ him bringing (b)/ this matter to (c)/ his attention. (d)/No error (e)
- In spite of work hard (a) /a lot (b)/ he didn't (c)/ pass the exams. (d)/No error (e)
- Ravi is (a)/ good at (b)/working in (c)/ the garden.(d) /No error (e)
- The doctor (a)/ generally advises (b)/ drink (c)/ low-fat milk. (d)/No error (e)

### Solutions:

- c;** Use 'my' in place of 'me'. Since, *gerunds are preceded by possessive case.*
- b;** Use 'inviting' in place of 'invite'. Since, *a preposition is followed by a gerund.*
- d;** 'Rajiv Gandhi being assassinated' should be used since possessive case does not precede a gerund in passive voice.
- c;** 'Murdering' should be used in place of 'murder' since *accused of* is always followed by a gerund.
- b;** 'Playing' should be used in place of 'play' since *used to* is always followed by a gerund.
- b;** Use 'working' in place of 'work' since *miss* is followed by a gerund.
- b;** 'Paying' should be used in place of 'pay' since *deferred* is followed by a gerund.
- e;** No error
- a;** Remove 'of' since prepositions are not used between acknowledge and gerund.
- b;** 'Driving' should be used in place of 'driven'. Since, a preposition (*here of*) is followed by a gerund.
- c;** 'Teaching' should be used in place of 'teach'.
- b;** Tolerate is followed by a gerund. Hence 'waiting' should be used in place of 'wait'.
- c;** Justify is followed by gerunds. So, 'taking' should be used in place of 'the taking of'.
- b;** Recall is always followed by a gerund. So, 'meeting' should be used in place of 'met'.
- b;** Remove 'about'. Since, since prepositions are not used between discussed and a gerund.
- b;** 'Going' should be used in place of 'to go'. When we remember something that had happened in the past and we have a memory of it, then gerund is used after remember.
- e;** No error. *When you forget about a memory, something that you had done in the past then, gerund follows forget.*
- a;** When you do something as an experiment and The thing you do is not difficult, but you want to see if doing it will have the result that you want, then gerund is used after *try*. Hence, 'giving up' should be used in place of 'give up'.
- a;** 'Having' should be used in place of 'to have'. Since, regret is followed by a gerund.
- b;** 'Working' should be used in place of 'to work'. Since, *dislikes* is followed by a gerund.
- b;** No error.
- b;** 'His bringing' should be used in place of 'him bringing'. Since gerunds are preceded by possessive case.
- a;** 'Working hard' should be used in place of 'work hard'. Since, *in spite of* is followed by a gerund.
- e;** No error.
- c;** 'Drinking' should be used in place of 'drink'.

## Handy Notes English : Prepositions and Their Usage

Dear Readers,

This Edition is loaded with a lot of materials relevant for any government examination. Friends, English is a subject that will help you for life. If you get good at it, then you will have a good scope to get selected. This article is related to preposition "at". Try to remember the rules as you may find questions related to this in exam.

**Rule 1: Used to say where something/somebody is or where something happens.**

**Example:**

We changed the metro **at** Rajiv Chowk  
Prime Minister arrived late **at** the airport.  
How many people were there **at** the crime scene.

**Rule 2: Used to say where somebody works or studies.**

**Example:**

He has been **at** the bank longer than anyone else  
She's **at** JNU.

**Rule 3: Used to say when something happens.**

**Example:**

We left the stadium **at** 9 pm.  
The lion woke **at** dawn.  
I didn't know **at** the time of writing.  
What are you doing **at** the weekend?

**Rule 4: Used to state the age at which somebody does something**

**Example:**

He dropped the college **at** the age of 19.  
She got married **at** 25.

**Rule 5: In the direction of or towards somebody/something.**

**Example:**

What are you looking **at**?  
He pointed the gun **at** her.  
The lady threw the ink **at** the Chief Minister.

**Rule 6: Used to state the distance away from something.**

**Example:**

The shooter was **at** arm's length.  
can you read a car number plate at 50 metres.

**Rule 7: Used to show the situation somebody/something is in**

**Example:**

The country is now **at** war.  
I think Mr. Neeraj is **at** lunch.

**Rule 8: Used to show a rate, speed etc.**

**Example:**

He was driving **at** 70 mph.  
The noise came **at** two minutes interval.

**Rule 9: Used to say that something/somebody is as good/bad etc. as they can be.**

**Example:**

This was Sachin **at** his best.  
The garden's **at** its most beautiful in April.

**Rule 10: Used with adjectives to show how well somebody does something.**

**Example:**

I am good **at** playing cricket.  
The lady is good **at** cooking.

**Rule 11: Used with adjectives to show the cause of something.**

**Example:**

They were impatient **at** the delay.  
She was delighted **at** the result.

**Rule 12: In response to something (Formal)**

**Example:**

They came **at** President's invitation  
The team responded at Minister's call.



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## Handy Notes Reasoning: Courses of Action

As we have announced in our previous month edition that in next edition we will provide handy notes of **Courses of Action**. So, here we are with clear and detail concept of Courses of Action:-

### What is Course of Action?



A Course of Action is a step or administrative decision to be taken for improvement, follow up or further action with regard to the problem, policy etc. on the basis of the information given in the statement.

### There are two broad types of pattern in Courses of Action :-

1. **Problem and solution based**:-This is the case in which presented situation talks of a problem and the suggested courses of action talks of a solution.
2. **Facts and improvement based**:- This is the case in which presented situation talks about simple facts and courses of action for their improvement.

### Some important points which should be in mind while solving Courses of Action:-

1. Course of action should be viable i.e you should take that course of action which are within your limit, which you are able to do that.
2. Action must be the solution i.e you should take that course of action which will solve or minimize the problem.
3. Action must be instant.
4. Action should be logically correct.
5. You cannot take any harsh action.
6. Action must be related to the problem.
7. A course of action cannot be repeated if it has previously failed.
8. A course of Action should be preventive in nature.
9. Remember that opinions are not course of action.
10. A course of action cannot be illegal.

**Note:** In most of the cases, a situation has more than one courses of action. But they are never exclusive to each other. So our answer should be always "Both follow" and not "either of them follows".

So, in simple word we can say that-Take that **Course of Action** which solves or minimize the problem.

### Pattern of questions asked in exams:-

**Directions**:- In each questions below, a statement followed by two courses of action numbered I and II, on the basis of the information given in the statement you have to assume everything in the statement to be true, then decide which of the suggested course of action logically follow for pursuing.

### Mark your answer as:-

- (a) If Only I follows
- (b) If Only II follows
- (c) If Either I or II follows
- (d) If Neither I nor II follows
- (e) If Both I and II follows

Some times in exam more than two Courses of Action are given. And option will be given according to that.

### Now, let's take some example of Courses of Action

#### 1. Statement :

The inmates of Jail X are very dangerous people.

#### Courses of Action :

- (i) More security personnel should be posted to guard the jail.
- (ii) Some inmates should be shifted to a different jail.

**Explanation :** only 1<sup>st</sup> course of action follows because in statement it is mentioned that the inmates are very **dangerous** people so, it is better to deploy more guard to prevent any wrong happening but 2<sup>nd</sup> course of Action is not **viable**. Shifting is not a solution of problem.

#### 2. Statement :

Severe drought is reported to have set in several parts of the country.

#### Courses of Action:

- (i) Govt. Should immediately make arrangement for providing financial assistance to those affected.
- (ii) Food, water and fodder should immediately be sent to all these areas to save the people and cattle.

**Explanation:** In the break-out of a natural calamity, the basic duty of the Govt. becomes to provide the **basic amenities** essential to save the lives of people and cattle. So, only 2<sup>nd</sup> conclusion follows.

We have given our best to make you understand the concept of "**Course of Action**" with some different examples with their explanation. Hope you will be able to get things clear. In our next edition we will provide the handy notes of **Blood Relation**.

So, stay connected with **Competition Power.....**

## Handy Notes Banking : Monetary Policy of RBI

It is the process by which the central bank of our country, RBI controls the supply of money in the economy by its control over interest rates in order to maintain price stability and achieve high economic growth. In India, the central monetary authority is the Reserve Bank of India (RBI) is so designed as to maintain the price stability in the economy.

**There are mainly two tools by which RBI controls the Monetary Policy. These are:**

- **Quantitative measures:** to control amount of credit.
- **Qualitative measures:** to control the allocation to different sections of economy.

### TOOLS OF QUANTITATIVE MEASURES:

#### BANK RATE:

The bank rate also known as the discount rate, is the rate of interest charged by the RBI for providing funds or loans to the Banking system in india. It also signals the medium-term stance of monetary policy.

#### OPEN MARKET OPERTIONS (OMO):

The buying and selling of government securities in the open market in order to expand or contract the amount of money in the banking system. Purchases inject money into the banking system and stimulate growth while sales of securities do the opposite.

#### LIQUIDITY ADJUSTMENT FACILITY (LAF):

Liquidity Adjustment Facility is the primary instrument of Reserve Bank of India for modulating liquidity and transmitting interest rate signals to the market. Under the scheme, repo auctions (for absorption of liquidity) and reverse repo auctions (for injection of liquidity) are conducted on a daily basis (except Saturdays). It is same-day transactions, with interest rates decided on a cut-off basis and derived from auctions on uniform price basis.

#### REPO/REVERSE REPO RATE:

These rates under the Liquidity Adjustment Facility (LAF) determine the corridor for short-term money market interest rates. In turn, this is expected to trigger movement in other segments of the financial market and the real economy.

#### MARKET STABILISATION SCHEME (MSS):

This instrument for monetary management was introduced in 2004. Liquidity of a more enduring nature arising from large capital flows is absorbed through sale of short-dated government securities and treasury bills. The mobilised cash is held in a separate government account with the Reserve Bank.

### TOOLS OF QUALITATIVE MEASURES:

#### CREDIT CEILING:

In this operation RBI issues prior information or direction that loans to the commercial banks will be given up to a certain limit. In this case commercial bank will be tight in advancing loans to the public. They will allocate loans to limited sectors. Few example of ceiling are agriculture sector advances, priority sector lending.

#### MORAL SUASION:

Moral Suasions are suggestion and guidelines by the RBI to the commercial banks to take so and so action and measures in so and so trend of the economy. RBI may request commercial banks not to give loans for unproductive purpose which does not add to economic growth but increases inflation in the economy.

#### CREDIT AUTHORIZATION SCHEME:

Credit Authorization Scheme was introduced in November, 1965 when P C Bhattacharya was the chairman of RBI. Under this instrument of credit regulation RBI as per the guideline authorizes the banks to advance loans to desired sectors.

Impact of Change in Rates on Money Supply				
S.no	Tools	Effect	Tools	Effect
1.	↑ Bank Rate	Reduction in MS	↓ Bank Rate	Increase in MS
2.	↑ Repo Rate	Reduction in MS	↓ Repo Rate	Increase in MS
3.	↑ CRR	Reduction in MS	↓ CRR	Increase in MS
4.	↑ SLR	Reduction in MS	↓ SLR	Increase in MS
6.	↑ Reverse Repo Rate	Reduction in MS	↓ Reverse Repo Rate	Increase in MS
7.	↑ LAF	Reduction in MS	↓ LAF	Increase in MS

**Note: MS is Money Supply**

## VOCABULARY CORNER

1. **Consecrate (V):** to cause to be revered, honoured or treated as sacred; dedicated to a sacred purpose.  
**Synonyms-** hallowed, sacral, sacred, sacrosanct, sanctified.  
**Use:** The church was consecrated in 1234.
2. **Brusque (Adj.):** Rough and abrupt in manner.  
**Synonyms-** curt, terse, laconic, uncivil.  
**Use:** Because they are so busy, bank clerks often appear brusque.
3. **Recondite(Adj):** obscure  
**Synonyms-** abstruse, concealed  
**Use-**This is, indeed, one of the most recondite mysteries of human nature.
4. **Diaphanous(Adj):** transparent; thin and delicate  
**Synonyms-** chiffon, delicate  
**Use-** The branches of the high elms stood out clearly in the diaphanous atmosphere.
5. **Baleful(Adj):** evil  
**Synonyms -** calamitous, dire  
**Use-** Everyone inherits something from the baleful institution, but not everyone the same.
6. **Effulgent(Adj):** Shining forth brilliantly  
**Synonyms-** blazing, flaming  
**Use-**She was so large and effulgent that one hardly missed the sun.
7. **Desultory(Adj):** lacking in consistency  
**Synonyms-** erratic, deviating  
**Use-** After a few minutes of desultory conversation, the political left.
8. **Grouse(N):** Complaint  
**Synonyms-** grievance, hardship  
**Use-** Sometimes we go together on the hills after grouse.
9. **Concord(N):** Agreement between two  
**Synonyms-** mutual, harmony  
**Use-** The symbol of Concord was two right hands joined together.
10. **Cavil(V):** Fault finding  
**Synonyms-** criticize, carp  
**Use-** Dalton liked sympathy too well to cavil about his title to it
11. **Divulgate (V):** TO make publicly known  
**Synonyms-** Uncover, exhibit  
**Use-** She merely again urged the Princess never to divulgate the secret.
12. **Consummate (Adj):** To make something complete or perfect  
**Synonyms-** mpeccable,absolute  
**Use-** The marriage lasted only a week and was never consummated.
13. **Niggardly (Adj):** mean, stingy  
**Synonyms-** parsimonious, miserly  
**Use-** we are finding it hard to make the two ends meet on the niggardly pittance we are earning.
14. **Heckle (V):** To harass with questions or tuants  
**Synonyms-** interrupt, jeer  
**Use-**The speaker could not proceed with his lecture as he was heckled by the audience.
15. **Exacerbate(V):** To aggravate  
**Synonyms-** intensify, exasperate  
**Use-**The pain reliever exacerbated the pain instead of acting as a reliever.
16. **Meander (V):** To move aimlessly  
**Synonyms-** recoil, drift  
**Use-** He spent the afternoon meandering around the streets.
17. **Digress (V):** To wander  
**Synonyms-** deflect, aberrate  
**Use-** I do not mind her habit of digressing, she's such a good customer.
18. **Untenable(Adj):** indefensible  
**Synonyms-** illogical, unsound  
**Use-** This is clearly untenable that the ruling party wants to disregard secularism.
19. **Radical(Adj):** Fundamental  
**Synonyms-** basic, basal  
**Use-** Radical inciters are telling politicians that we are going to destroy the mosque.
20. **Pronouncement(N):** an advertisement or decree  
**Synonyms-** announcement, judgment  
**Use-** At the conclusion of the pronouncement, the supreme court judge thanked everyone.
21. **Apposite(Adj):** Pertinent  
**Synonyms-** relevant, germane  
**Use-** Talk should proceed by instances; by the opposite, not the expository.
22. **Paragon(N):** outstanding  
**Synonyms-** epitomb, ideal  
**Use-** We see a paragon of paternity between our two counties.
23. **Uphold(V):** To support or defend against opposition.  
**Synonyms-** defend, advocate  
**Use-** You are expected on all occasions to uphold the authority of me.
24. **Cognizance(N):** awareness  
**Synonyms-** insight, attention  
**Use-** Banks are taking cognizance of the healthy asset quality and low credit losses.
25. **Incumbent(Adj):** Obligatory  
**Synonyms-** necessary, binding  
**Use-** It is incumbent on high constitutional functionaries to rise to the occasion.
26. **Lynch(V):** To put to death  
**Synonyms-** execution, capital punishment  
**Use-**Lynching was one of the reasons most often given as a cause of the migration.
27. **Embolden(V):** Encourage  
**Synonyms-** energize, invigorate  
**Use-** Emboldened by his success, I followed his advice.
28. **Strife(N):** an act of contention  
**Synonyms-** controversy, animosity  
**Use-** 20 years of civil strife have left the country's economy in? ruins.
29. **Encore(N):** a demand for repetition  
**Synonyms-** plaudits, reappearance  
**Use-** Audience were ?shouting for an encore.
30. **Litigant(N):** a person who involved in a lawsuit  
**Synonyms-** offender, offender  
**Use-** Every litigant was legally required to conduct his own case.

## Handy Notes Computer: Storage Devices

### What kinds of storage devices are found in computer systems?

The answer may be a bit more involved than you would expect, because there are a perhaps surprisingly large number of different kinds of storage devices. The outline below seeks to identify these and to provide a logical way of organizing them.

### Primary (or Main) Memory

**Registers:** These are memory cells (typically four or eight bytes in size) that are part of the processor itself, so that operations (e.g. addition, comparison, etc.) can be performed directly upon data stored therein (and usually within a single clock cycle, which is less than a billionth of a second!). Indeed, only data items (including instructions) that are being held in a register can be operated upon by the processor. Hence, any data item in RAM that is to be used for some purpose first must be transferred into a register.

In order to keep the electronic circuitry of the processor at a reasonable level of complexity, the number of registers is quite small, typically no more than a few dozen.

**Cache:** This is a block of very high-speed (and expensive) memory cells (typically four bytes in length) used for storing copies of data items also being held in RAM (see below) that have been accessed very recently or are anticipated to be accessed in the very near future. Due to its high cost, cache capacity is typically limited (this is in early 2009) to the neighborhood of 512KB (one-half MB) to 4MB.

Some processors have multiple levels of cache (usually referred to as L1 and L2, for example), with L1 being faster (access within a few clock cycles) but having lower capacity (e.g., tens of KB) than L2 (access to which requires tens of cycles).

**Random Access Memory (RAM):** This is a block of fairly high-speed memory cells that are used for storing (portions of) currently-executing programs and data that those programs are using. In early 2008, it was typical for a "desktop" or "laptop" computer to have RAM with a capacity of between

512MB (0.5GB) and 4GB. The price of RAM at that time was about \$25 per GB.

The term "random" is meant to suggest that the time required to access any particular memory location in RAM is independent of which memory location was accessed most recently. (This is in contrast to accessing the "data" on a VHS or audio cassette tape, which are "sequential" (rather than "random") storage devices. Suppose, for example, that a VHS tape is fully rewound; then to get to the fifth hour of video stored on that tape, you must fast forward past the first four hours. On the other hand, if the tape were already at the beginning of the fourth hour, you could get to the fifth hour by fast forwarding past only one hour of video.

Regarding the interplay between cache and RAM: Roughly speaking, whenever the CPU needs to fetch the data occupying some particular memory cell in RAM, first it looks in cache to see if a copy is already there. If so, it accesses that copy in a fraction of the time that would have been required to access the corresponding cell in RAM. If not, it accesses the desired cell of RAM; also, anticipating that that same cell of RAM will need to be accessed again in the near future, the CPU copies that cell's contents (as well as that of a block of neighboring cells) into cache (replacing some block of data items that hasn't been accessed recently).

The introduction of cache is a relatively new development, motivated by the fact that (as processor and memory technology has advanced over the years) the ratio between the time needed to transfer data between RAM and a register and the time needed to perform an operation on data (that is necessarily already in a register) has been steadily growing, to the point where, without cache, the CPU would be spending the vast majority of its time waiting for data to be transferred between RAM and registers. This phenomenon is sometimes referred to as the processor-memory bottleneck.

The term transitory can be used to describe the kinds of main memory listed so far. This term is apt because their intended purpose is not to store anything for long, but rather to

provide fast access to data (and instructions) currently being used (i.e., related to applications currently running and whatever data they are using). Because there is no need to store data in main memory permanently (see exception below), and because it is cheaper to do so, registers, cache, and RAM are designed to be volatile, meaning that, absent a constant application of electrical power, they lose their contents relatively quickly.

**Read-only Memory (ROM):** A small block of (non-volatile) memory having as one of its purposes to store instructions that are executed whenever the computer is turned on, commencing the so-called "boot-strapping" process by which (crucial components of) the operating system is loaded into RAM, thereby allowing the computer to begin functioning. (From this description, it should be fairly clear why it is vital for ROM to be non-volatile.)

### Secondary Storage

The purpose of secondary storage is to store data and programs on a long-term basis. (Hence, all forms of secondary storage are non-volatile, meaning that they retain the data stored on them (for a long period of time) without the need for electrical power.) As data (or a program) is needed in RAM (e.g., when a program is called upon to be executed, such as when the user double clicks upon an icon representing that program), it is copied from secondary storage into RAM, where it can be accessed quickly.

Among the types of secondary storage media are these:

**Solid-State:** For example, flash memory sticks; these usually are attached to a computer via a USB port and have a capacity in the hundreds of MB or a few GB's. They are highly mobile and have largely supplanted floppy disks in recent times. This kind of storage is widely used in devices such as PDA's and digital cameras.

**Magnetic Disk:** These are disks on which data is recorded on a set of concentric rings (or "tracks") (see the figure about 4/5-ths of the way through How Hard Disks Work) using properties of magnetism.

**Hard disk:** high storage capacity (in early 2008, typically in the range of 80 to 320 GB) and much cheaper than RAM (in early 2008, about \$0.25 per GB, which is about 1/100 the price of RAM)

removable/portable disk: zip disk, disk cartridge, floppy disk  
Optical Disc: These are discs on which data is represented by a spiraling track of "pits and lands" (or valleys and bumps, if you prefer). A laser beam is used to "read" the data on the surface.

**CD-ROM:** "Read Only" (used for distribution of commercial software, for example) Standard storage capacity is 640MB.

**CD-R (or CD-WORM):** "Write Once, Read Many" times

**CD-RW:** rewritable multiple times (but you can't really delete a file without deleting all of them!)

**DVD:** similar to CD, but with significantly larger storage capacity (4.7GB)

**Magnetic Tape:** usually used for making backup copies of disk (so that if the disk fails, a recent copy of its contents can be recovered and written onto a new replacement disk) or for archival storage. Tapes that are kept offline (meaning that they sit on a shelf and are "mounted" onto a tape drive (by a human or a robotic device) only when needed) are sometimes put into the category of tertiary, as opposed to secondary, storage. Tape drives are what you see spinning in the background in numerous scenes in movies and TV shows depicting a large computer.

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## Practice Questions Set for Computer

1. Generally Dynamic RAM is used as main memory in a computer system as it
  - a. Consumes less power
  - b. has higher speed
  - c. has lower cell density
  - d. needs refreshing circuitary
2. CD-ROM stands for
  - a. Compactable Read Only Memory
  - b. Compact Data Read Only Memory
  - c. Compactable Disk Read Only Memory
  - d. Compact Disk Read Only Memory
3. Where are data and programme stored when the processor uses them?
  - a. Main memory
  - b. Secondary memory
  - c. Disk memory
  - d. Programme memory
4. What characteristic of read-only memory (ROM) makes it useful?
  - a. ROM information can be easily updated.
  - b. Data in ROM is non-volatile, that is, it remains there even without electrical power.
  - c. ROM provides very large amounts of inexpensive data storage.
  - d. ROM chips are easily swapped between different brands of computers.
5. The instructions that tell a computer how to carry out the processing tasks are referred to as computer.....
  - a. programs
  - b. processors
  - c. input devices
  - d. memory modules
6. The primary function of the ..... is to set up the hardware and load and start an operating system
  - a. System Programs
  - b. BIOS
  - c. Motherboard
  - d. Memory
7. What kind of memory is both static and non - volatile?
  - a. RAM
  - b. ROM
  - c. BIOS
  - d. CACHE
8. What characteristic of RAM memory makes it not suitable for permanent storage?
  - a. too slow
  - b. unreliable
  - c. it is volatile
  - d. too bulky
9. RAM is an example of
  - a. Secondary memory
  - b. Main memory
  - c. Primary memory
  - d. Both (1) and (2)
10. .... Store data or information temporarily and pass it on as directed by the control unit
  - a. Address
  - b. Register
  - c. Number
  - d. Memory
11. EEPROM stands for
  - a. Electrically Erasable Programmable Read Only Memory
  - b. Easily Erasable Programmable Read Only Memory
  - c. Equally Erasable Programmable Read Only Memory
  - d. None of the above
12. The circuit used to store one bit of data is known as
  - a. Register
  - b. Encoder
  - c. Decoder
  - d. Flip Flop
13. Which of the following is lowest in memory hierarchy?
  - a. Cache memory
  - b. Secondary memory
  - c. Registers
  - d. RAM
14. Virtual memory consists of
  - a. Static RAM
  - b. Dynamic RAM
  - c. Magnetic memory
  - d. None of these
15. Cache memory works on the principle of
  - a. Locality of data
  - b. Locality of memory
  - c. Locality of reference
  - d. Locality of reference & memory

### Answers:

- |       |       |       |       |
|-------|-------|-------|-------|
| 1. b  | 2. d  | 3. a  | 4. b  |
| 5. a  | 6. b  | 7. b  | 8. c  |
| 9. c  | 10. b | 11. a | 12. d |
| 13. b | 14. a | 15. c |       |



## Handy Notes GS(Polity): A Brief on the Lok Sabha (LS) & Rajya Sabha (RS)- Part 2

The Vice-President of India is always the *ex-officio* Chairman of the RS. During any period when the VP acts as President, then he does not perform the duties of the office of the Chairman of RS. The Chairman of the RS can be removed from his office only if he is removed from the office of the Vice-President.

The powers and functions of the Chairman in the RS are similar to those of the Speaker in the LS. However, the Speaker has two special powers which are not enjoyed by the Chairman:

1. The Speaker decides whether a bill is a money bill or not and his decision on this question is final.
2. The Speaker presides over a joint sitting of two Houses of Parliament.

**Note:** Chairman is not a member of the House. But like the Speaker, the Chairman also cannot vote in the first instance. He too can cast a vote in the case of an equality of votes.

The VP cannot preside over a sitting of the RS as its Chairman when a resolution for his removal is under consideration. The salaries and allowances of the Chairman are also fixed by the Parliament. They are charged on the Consolidated Fund of India and thus are not subject to the annual vote of Parliament.

### Deputy Chairman of Rajya Sabha

The Deputy Chairman is elected by the Rajya Sabha itself from amongst its members. The Deputy Chairman vacates his office if:

- he ceases to be a member of the RS;
- he resigns by writing to the Chairman; and
- he is removed by a resolution passed by a majority of all the members of the RS. Such a resolution can be moved only after giving 14 days' advance notice.

**Note:** The Deputy Chairman performs the duties of the Chairman's office when it is vacant or when the Vice-President acts as President or discharges the functions of the President. He also acts as the Chairman when the latter is absent from the sitting of the House.

### LEADERS IN PARLIAMENT

#### Leader of the House

The 'Leader of the House' means the PM, if he is a member of the Lok Sabha, or a minister who is a member of the LS and is nominated by the PM to function as the Leader of the House. In RS, the 'Leader of the House' is a minister and a member of the Rajya Sabha and is nominated by the PM to function as such.

#### Leader of the Opposition

In each House of Parliament, there is the 'Leader of the Opposition'. The leader of the largest Opposition party having not less than one-tenth seats of the total strength of the House is recognised as the leader of the Opposition in that House.

### SESSIONS OF PARLIAMENT

#### Summoning

The President summons each House of Parliament to meet. But, the maximum gap between two sessions of Parliament cannot be more than six months. There are usually three sessions in a year, viz,

- Budget Session (February to May)
- Monsoon Session (July to September)
- Winter Session (November to December)

#### Adjournment Prorogation

This only terminates a sitting and not a session of the House & done by presiding officer of the House.

#### Adjournment

An adjournment suspends the work in a sitting for a specified time, which may be hours, days or weeks.

#### Adjournment *Sine Die*

It means terminating a sitting of Parliament for an indefinite period.

#### Dissolution

Rajya Sabha, being a permanent House, is not subject to dissolution. Only the Lok Sabha is subject to dissolution. Dissolution ends the very life of the existing House, and a new House is constituted after general elections are held.

#### Quorum

It is the minimum number of members required to be present in the House before it can transact any business. It is one-tenth of the total number of members in each House including the presiding officer.

#### Lame-duck Session

It refers to the last session of the existing Lok Sabha, after a new Lok Sabha has been elected. Those members of the existing Lok Sabha who could not get re-elected to the new Lok Sabha are called lame-ducks.

### What are the devices of Parliamentary Proceedings?

#### Question Hour

The first hour of every parliamentary sitting is slotted for this. During this time, the members ask questions and the ministers usually give answers. The questions are of three kinds, namely, starred, unstarred and short notice.

- A **starred question** (distinguished by an asterisk) requires an oral answer and hence supplementary questions can follow.
- An **unstarred question**, on the other hand, requires a written answer and hence, supplementary questions cannot follow.
- A **short notice question** is one that is asked by giving a notice of less than ten days. It is answered orally.

**Note:** We will provide the remaining portion in our next edition which will conclude this topic.

## अपनी प्रेरणा स्वयं बनें ...

हममें से ज्यादातर लोगों को यह अच्छे से पता होता है कि अपनी जिंदगी को बेहतर बनाने के लिए हमें क्या करना चाहिए। फिर भी हम वह सब नहीं करना चाहते जो इसके लिए जरूरी होता है। आपने कई ऐसे लोगों को देखा होगा जिन्हें यह मालूम है कि धूम्रपान करना उनकी सेहत के लिए कितना खतरनाक है और भविष्य में उन्हें इसके क्या परिणाम देखने को मिलेंगे। लेकिन वे अपनी धूम्रपान की आदत को छोड़ नहीं पाते। उन बातों पर अमल नहीं कर पाते।

अधिकतर लोग अच्छे होते हैं लेकिन वे और भी अच्छे बन सकते हैं। जरूरत होती है—एक प्रेरणा की। प्रेरणा वह शक्ति है जो हमें किसी काम को करने के लिए प्रेरित करती है ऊर्जा देती है जिससे हमें गति मिलती है। इसी से हमारे अंदर किसी काम को करने की लगन पैदा होती है, अंदर से उसे करने की इच्छा होती है। वहीं, यह सच है कि आत्मसंतुष्ट व्यक्ति कोशिश नहीं करता। आत्मसंतुष्ट लोग विकास भी नहीं करते, क्योंकि उन्हें जिंदगी की जरूरतों का अहसास भी नहीं होता।

किसी काम को करने के लिए, उसकी पहल करने के लिए जरूरी होता है कि हम जो काम करने जा रहे हैं उसमें यकीन रखें और उसकी जिम्मेदारी स्वीकार करें। जब हम अपने काम और उसके प्रति अपने जिम्मेदारी को स्वीकार कर लेते हैं तो एक बेहतर नजरिये के साथ—साथ अच्छे परिणाम भी हमारे सामने आते हैं। हमारी प्रेरणा से हमारे आसपास के माहौल पर भी असर पड़ता दिखने लगता है। इसमें कोई दो राय नहीं कि हम दूसरे लोगों से जैसे व्यवहार की उम्मीद करते हैं, हम अपने लिए भी वैसा ही चाहते हैं। हमारा यही नजरिया, अपने और औरों के प्रति होता है। इसके लिए, हमें अपने आंतरिक मूल्यों, विचारों में विश्वास होना चाहिए। दरअसल, आत्मसम्मान, उपलब्धि का अहसास जिम्मेदारी और विश्वास जैसी प्रेरणाएं व्यक्ति के भीतर से आती हैं। यह हमारे अंदर, हमें स्वयं महसूस होने वाली आत्म संतुष्टि होती है जो लंबे समय तक हमारे साथ टिकी रहती है। किसी निरर्थक लक्ष्य को हासिल करके हमें कभी भी आंतरिक संतुष्टि नहीं मिलती है। सफलता पाने के लिए अपनी प्रेरणा को पहचानने और लगातार शक्तिशाली बनाने की जरूरत होती है। यह प्रेरणा हमें किसी से भी मिल सकती है। फिर चाहे वह अच्छा—बुरा, बड़ा—छोटा ही अनुभव क्यों न हो। हमें कुछ कर गुजरने के लिए प्रेरित अवश्य करता है।

थॉमस अल्वा एडिसन (1847–1931) अमेरिका के महानतम आविष्कारक हैं। किशोरावस्था में एक दुर्घटना का शिकार होने के कारण वे अपनी श्रवण शक्ति लगभग खो चुके थे, लेकिन उन्होंने फोनोग्राम का आविष्कार किया। जिसे हम रिकार्ड प्लेयर के नाम से बेहतर जानते हैं। और बिजली का बल्ब? क्या आप सोच सकते हैं कि मामूली सा प्रतीत होने वाले बल्ब की खोज ने

एडिसन को कितना तपाया? उसके जलनेवाले फिलामेंट के लिए उपयुक्त पदार्थ की खोज में एडिसन ने हजार से भी ज्यादा वस्तुओं पर प्रयोग कर डाले थे। किसी ने एडिसन से कहा, “हजार चीजों का प्रयोग करने के बाद भी आप अच्छा फिलामेंट नहीं बना पाये।” एडिसन ने मुस्कराते हुए जवाब दिया, “ऐसा नहीं है, मुझे ऐसी हजार चीजों के बारे में पता है जो फिलामेंट बनाने के लिए उपयुक्त नहीं हैं।” एडिसन ने अपने आविष्कारों के लिए एक हजार से भी ज्यादा पेटेंट प्राप्त किए। उनकी मृत्यु से कुछ समय पहले एक पत्रकार ने उनसे पूछा कि कौन सी बात किसी व्यक्ति को जीनियस बनाती है। एडिसन ने कहा, “कोई भी व्यक्ति प्रेरणा और परिश्रम से जीनियस बनता है।

अगर आप अपने लक्ष्य को लिखकर सामने रखें और हर दिन उसे सुबह—शाम देखें तो आप हर बार इसे देखकर प्रेरित होंगे। और इस प्रोत्साहन के साथ कदम—दर—कदम आगे बढ़ते जाएंगे। कई बार हम कुछ गलत चीजों से भी अन्य तरीके से प्रेरित हो जाते हैं और इस तरह की गलत प्रेरणा हमारे जीवन को भी प्रभावित कर गलत दिशा में धकेल देती है। इसे हम इस छोटी सी कहानी से समझ सकते हैं...दो भाई थे। दोनों में से एक कुशल व्यवहार वाला सफल व्यापारी था जो समाज में काफी सम्मानित भी था वहीं दूसरा भाई, नशे का आदी और झगडालू प्रवृत्ति का था। ऐसे में जब यह देखा गया कि एक ही माता—पिता की संतानों में इतना अंतर कैसे हो सकता है जबकि दोनों का पालन पोषण एक ही तरह से किया गया। दोनों भाईयों ने इस प्रश्न के जवाब अपने अपने ढंग से दिए। एक ने कहा, “मेरे पिता ने भी जिन भर नशा किया और लोगों के साथ झगड़े किए। आप मुझसे क्या आशा करते हैं? मैं बस उन्हीं पर गया हूँ।” वहीं, जब दूसरे भाई ने जवाब दिया जो बिल्कुल भिन्न था। उसका कहना था, “मैंने जब बचपन में अपने पिता को ऐसे गलत काम करते देखा तभी फैसला कर लिया कि मुझे कुछ अच्छा करना है, अपने पिता जैसा नहीं बनना।”

इस कहानी से हमें यह समझ मिली है कि प्रेरणा का स्रोत एक ही होने के बावजूद, उसका सही और गलत इस्तोमाल कैसे हो सकता है। कोई गलत प्रेरणा हमें गलत या सही दोनों रास्ते दिखा सकती है। बस हमें उस समय संभलकर बच निकल सही दिशा में जाना होता है।

हमें सफलता के लिए औरों से नहीं बल्कि खुद से आगे निकलने की इच्छा रखनी चाहिए। स्वयं प्रेरित होकर आगे निकलना हमें और भी योग्य बनाता है। अपने सबसे बेहतर स्तर को प्राप्त करना आसान नहीं होता है। यहां बहुत सी रूकावटें भी हमारे सामने खड़ी होती हैं लेकिन जीतने वालों में इन बाधाओं को जीतने और पहले से भी ज्यादा मजबूत होकर आगे निकलने की क्षमता होती है।

## SUCCESS STORY Of Career Power Student: Rashmi

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Baroda U.P. Grameen Bank

Dear Aspirants

First of all I want to thanks BA for guidance to let me know what to study and what not I am a silent reader of BA. Talking about myself I am a B.Tech graduate (CSE) passed out in 2013. Then I worked in a private company in Gurgoan for 11 months and then I came to Lucknow for govt. jobs preparation. In 2015 I cleared written of IBPS PO and clerk but failed in final of PO and clerk is still waiting. But this year I am selected as PO in Baroda UP Grameen Bank, cleared IB PO pre and mains and waiting for the final results.

### Talking about my strategy

**Maths:** Daily, solve 2 DI, atleast solve 10 series daily. Timebound yourself. Set time to solve DI. Because this section is the most scoring one and can make difference.

**Reasoning :** Solve 1 puzzle on daily basis. Before going for any exam revise your concept of syllogism, m/c input, inequality for sure. Because these are the topics must to be attempted. With accuracy. Do 1 m/c i/p daily.

**English:** For the beginners start reading one editorial of the Hindu underline the difficult words, write down their synonym in a separate notebook on daily basis. Revise it before going to sleep daily. Do 20 error correction daily and note down the difficult one. Practice 1 passage daily. Do this and you will notice

the difference in one month. But continue it till selection.

**GA:** BA BA and Only BA. I only read daily news, BA capsules and quizzes.

At last I want to thank BA, my friend Pushpanjali and Mohit and Deepak sir you guided me always.

Wish you all gud luck. 😊

**RRB PO**

**Reg No. :** 1440540819

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## HINDU REVIEW : MARCH 2016

1. Delhi's Indira Gandhi International Airport has retained the world's number 1 position for the second consecutive year in 25-40 Million Passengers Per Annum (MPPA) category. The rankings were announced by the Airports Council International (ACI).
2. Mahesh Kumar Singla committee constituted to consider ST status to six communities of Assam. The committee will consult with the Government of Assam and suggest the modalities for the required reservations, of shifting the existing reservation for these communities from OBC to ST.
3. Former Chief Justice of India H L Dattu took charge as the Chairperson of National Human Rights Commission (NHRC). He is the 7th Chairperson of the NHRC.
4. Indian Defence Ministry has issued an order worth Rs 22,000 crores for purchase of helicopters, CH-47 Chinook and AH-64 Apache, which will be inducted in the forces soon.
5. The 7th joint military exercise between India and Seychelles military forces came to a close at Victoria Mahe Island in Seychella with a final attack scenario where suspected pirates had escaped at Cap Ternay.
6. The Small Industries Development Bank of India (SIDBI) will raise the proposed Rs 10,000 Crore corpus for 'Stand Up India Fund' from Reserve Bank Of India. The Fund will be disbursed to Dalit and women entrepreneurs.
7. The Japanese government will stipulate a long-term goal of cutting greenhouse gas emissions by 80 per cent by 2050 from current levels.
8. Randeep Hooda, the Bollywood actor was felicitated by Melbourne based South Asian community members at a function in Australia.
9. Foreign Minister Hashim Thaci elected as President of Kosovo by the Members of Parliament amid the protests. He succeeded Atifete Jahjaga.
10. India and the US could jointly explore Mars and, who knows, an Indian astronaut could also head to the Red planet on a joint mission.
11. Zee Media Corporation will acquire up to 80 per cent stake in India Today group's loss-making e-commerce and TV shopping entities — Today Merchandise and Today Retail Network Pvt Ltd — for Rs 166 crore in staggered payments over the next four years.
12. Slovenian high-jumper Rozle Prezelj was elected the Chairman of the International Association of Athletics Federations (IAAF) Athletes' Commission in Monaco.
13. Rahul Sachdev won the 1st All India Open Invitational Snooker Championship 2016 in Aurangabad, Maharashtra.
14. Car racer Armaan Ebrahim was awarded the Motorsports Man-of-the-Year Trophy at ceremony organised by the Federation of Motor Sports Clubs of India (FMSCI).
15. Olympian Basant Bahadur Singh Rana clinched the gold medal in men's 50km race walk event on the second and final day of the National Championships in Jaipur. It was the 3rd edition of National Race Walking Championships.
16. External Affairs Minister Sushma Swaraj has inaugurated the 1st Raisina Dialogue in New Delhi.
17. Mukesh Ambani Reliance Industries chairman again topped 84 Indian billionaires in Forbes 2016 list of the world's richest people once again headed by Bill Gates with a net worth of \$75 billion.
18. The MS Swaminathan Research Foundation has signed a MOU with Bhubaneswar -based Kalinga Institute of Social Sciences (KISS) to establish a Research Chair.
19. Aditya Birla Group firm UltraTech has announced the acquisition of debt-ridden JP Group's cement plants for Rs 16,500 crore, making it the biggest deal in the sector.
20. Tata Consultancy Services (TCS), a leading IT services company has been recognized as a Global Top Employer by the Top Employers Institute.
21. Sanjiv Kapoor has been appointed as the Chief Strategy and Commercial Officer of Vistara Airlines.
22. Vice Admiral Atul Kumar Jain took over as the Chief of Staff of the Visakhapatnam. He succeeds Vice Admiral Bimal Verma.
23. RBI unlocks Rs.40000 crore additional capital for banks. At the time when public sector banks are facing pressure on their profitability due to a sharp rise in non-performing assets, which is eroding their capital base.
24. Multi Commodity Exchange announced the appointment of Mrugank Paranjape as MD & CEO of the exchange. He will succeed Manoj Vaish.
25. NASA(National Aeronautics and Space Administration) astronaut and Expedition 46 Commander Scott Kelly and his Russian counterpart Mikhail Kornienko returned on Earth. After a historic 340-day mission aboard the International Space Station.

26. George Kennedy, who passed away recently, was one of America's most recognizable and versatile character actors. He was 91 year old.
27. Aaron Phangiso, the South African left-arm spinner, has been suspended from bowling in domestic cricket with immediate effect after his action was found to be illegal.
28. The multinational mega Military Exercise Force 18 conducted by Indian Army has started in Pune, Maharashtra from 2nd March. The theme of the exercise is 'Humanitarian Mine Action' (HMA) and 'Peacekeeping Operations' (PKO).
29. A financing agreement for International Development Association (IDA) credit of US\$ 300 (equivalent) for the Madhya Pradesh Higher Education Quality Improvement Project was signed with the World Bank.
30. NHAI has taken a significant step in ensuring development of management competencies of its technical and managerial manpower, with a tie up with Indian School of Business (ISB), Hyderabad.
31. Parliament has passed the Carriage by Air (Amendment) Bill, 2015 to empower Union government to revise the limits of liability for airlines and compensation as per the Montreal Convention which India accepted in 2009.
32. India has been ranked at the 90th place in a list of 126 countries in terms of Energy Security compiled by World Economic Forum (WEF). The list is topped by Switzerland.
33. A total of 183 self-cleaning public eToilets have been installed in the Chennai City. Chennai is the 1st city in India to gets smart Toilets. These toilets are free for Public use.
34. Three British scientists have won a prestigious 2016 Grete Lundbeck European Brain Research Prize (also known as Brain Prize) for giving vital insight how the human brain remembers, learns and navigates. These scientists are Timothy Bliss, Graham Collingridge & Richard Morris.
35. South Korea's parliament Passed the country's first anti-terror bill, with opposition lawmakers leaving the plenary chamber after ending the nine-day marathon speeches.
36. Peru has declared an emergency three weeks after a major oil pipeline burst, affecting two rivers in the country's northwest.
37. International Finance Corporation (IFC), an part of the World Bank group launched its first Uridashi Masala bonds ( Japanese Bonds ) to mobilize Rs.30 crores (or \$4.3 million) directly from Japanese household investors to promote private sector development in India.
38. The Hinduja Group is a global conglomerate company acquired the heritage Old War Office in London that was once inhabited by Winston Churchill.
39. Poet Dr Bhagwati Lal Vyas has been chosen for the 2015 Bihari Puraskar for his anthology of Rajasthani poems 'Katha Sun Aawe Hai Sabad' Published in 2010.
40. New Zealand Cricketer Martin Crowe passed away after a prolonged battle with cancer that eventually proved one attack the gifted cricketer couldn't see off.
41. The Prime Minister Narendra Modi has launched Rs 50,000-crore "Setu Bharatam" programme to build bridges for safe and seamless travel on National Highways. With this the government aims to make all national highways free from railway crossings by 2019.
42. Government of Kerala has taken first of its kind initiative by launching the Air Ambulance in Kerala launched by the Chief Minister Oommen Chandy.
43. Veteran Film Actor and Director Shri Manoj Kumar is to be conferred the 47th Dada Saheb Phalke Award for the year 2015.
44. Alappuzha Backwaters To Get India's First Solar Ferry.
45. The government of India has proposed to constitute a committee of Kashmiri Pandits (KPs) to monitor implementation of packages for rehabilitation of the displaced community. The committee panel will consist 10 member.
46. Veteran playwright and director Ratan Thiyam has been selected for prestigious Lifetime Achievement Award for 2016 at the 11th edition of Mahindra Excellence in Theatre Awards (META).
47. The World's most expensive train station in the world opens at the World Trade Center site in New York, United States Of America.
48. Leading e-commerce company Flipkart launched its own advertisement platform, Brand Story Ads, with over 50 leading brands on board.
49. Veteran singer Stevie Wonder was honoured with Global Green Hero award. The award has been given at the 13th Annual Global Green USA Pre Oscar party.
50. Veteran All India Forward Bloc (AIFB) leader and senior-most leader of the Left Front in West Bengal, Ashok Ghosh passed away recently. He was 94.
51. Purno Agitok Sangma, who was the Lok Sabha Speaker from 1996 to 1998 and one of the co-founders of Nationalist Congress Party passed away following a heart attack. He was 68.

52. The Mumbai under-23 team clinched the Col CK Nayudu Trophy by defeating Madhya Pradesh at the Holkar Stadium in Indore.
53. A Memorandum of Understanding was signed between Indian Army and Hinduja Grouped IndusInd Bank on the Defence Salary package.
54. Independent investor Sunil Sabharwal has become the first Indian American to occupy a key administration post as Alternate Executive Director at the IMF.
55. The Advertising Club Madras conferred its 1st Distinguished Service Award on Srinivasan K Swamy, Chairman and Managing Director, R K Swamy BBDO for his outstanding contribution to the advertising industry.
56. Beverage giants PepsiCo has named as the new associate sponsor of BCCI, which was earlier pulled out as title sponsors of the Indian Premier League in October.
57. The traditional festival of Chapchar Kut of the Mizos was celebrated across the north-eastern state of Mizoram and also in the Mizo-inhabited areas in the neighbouring states.
58. Tata Consultancy Services (TCS) CEO and managing director Natarajan Chandrasekaran and two others appointed as non-official directors to the board of Reserve Bank of India (RBI). Other two are: Mr Mankad & Bharat Narotam Doshi.
59. The Election Commission today announced the schedule for Assembly polls in four states — West Bengal, Tamil Nadu, Kerala, Assam and for Union Territory Puducherry. The Chief Election Commissioner Nasim Zaidi has announced the election date in New Delhi.
60. Pat Conroy, Prince of Tides And Great Santini Author, Dies At 70.
61. Telangana Congress Former Minister Ramreddy Venkat Reddy passed away yesterday. He was 72.
62. P.K.Nair, the founder director of the National Film Archive of India has passed away. He was 86.
63. Anirban Lahiri Jumps To 9th Spot At World Golf Championships.
64. Jitu Rai (Nepali) is an Indian shooter of Nepalese origin, clinch the 50m pistol gold at the ISSF World Cup Bangkok.
65. The first Raisina-Dialogue 2016, a flagship conference on Geopolitics and Geo-economics began in New Delhi.
66. India has filed a complaint against the United States decision to impose high fees L-1 and H-1B categories of temporary working visas in the World Trade Organisation (WTO).
67. President Pranab Mukherjee inaugurated a National conference on 'Women Legislators: Building Resurgent India' in New Delhi.
68. Uttar Pradesh Assembly passed the UP Revenue Code (Amendment) Bill 2016 replacing an ordinance issued by the Governor Ram Naik. The Bill allows Dalits of the state to sell their land to non-Dalits in the state without approval of the administration even if their remaining holding is less than 3.5 acres.
69. With mounting bad loans, the second edition of the Finance Ministry's brain storming session with public sector banks focused on management of non-performing assets and consolidation in the sector. The two-day Gyan Sangam — an annual retreat of chiefs of public sector financial institutions, officials from the Finance Ministry and the Reserve Bank of India — recently held on March 4 and 5 in Gurgaon.
70. Dharmendra Pradhan, the Union Minister for Petroleum and Natural Gases laid the foundation stone of Country's 1st its of kind Octomax unit at Mathura refinery.
71. Finance Minister of India Mr. Arun Jaitley has indicated that the Government may merge 27 public sector banks into just six.
72. Myanmar has granted operating licenses to four Asian banks, bringing to 13 the number of foreign banks allowed to conduct business in the previously isolated country. Bank for Investment and Development of Vietnam, State Bank of India, Taiwan's Sun Commercial Bank and South Korea's Shinhan Bank, these are the four bank were granted preliminary licenses, Myanmar's Foreign Bank Licensing Committee.
73. Dr Amrita Patel has been conferred with the Mahindra Samridhi India Agri Lifetime Achievement Awar-Krishi Shiromani Samman in New Delhi.
74. Jalandhar-based Capital Local Area Bank has become the first entity to receive the Reserve Bank of India's licence to start operations as a small finance bank.
75. Amazon World's largest e-retailer is India's most trusted online shopping brand followed homegrown Snapdeal and Flipkart.
76. Real estate developer Tata Housing has partnered with the country's largest lender, State Bank of India, on the occasion of the International Women's Day.
77. The first two-day 'Happening Haryana Global Investors Summit 2016' has kicked off in Gurgaon, which has seen participation from 12 countries.

78. Uttar Pradesh Assembly passed the UP Revenue Code (Amendment) Bill 2016 replacing an ordinance issued by the Governor Ram Naik. The Bill allows Dalits of the state to sell their land to non-Dalits in the state without approval of the administration even if their remaining holding is less than 3.5 acres.
79. Ray Tomlinson, the inventor of email has passed away. He was 74. He died of an apparent heart attack.
80. Renowned Malayalam actor and folk singer Kalabhavan Mani passed away in Kochi on Sunday. He was 45.
81. Nancy Davis Reagan was an American actress and the wife of the 40th President of the United States, Ronald Reagan. She died At 94
82. Season 3 of Star Sports Pro Kabaddi, ended on a high note with power packed action between U Mumba and Patna Pirates. Patna Pirates beat the dominant U Mumba to emerge as Champions of Pro Kabaddi Season 3.
83. India beat Bangladesh by 8 wickets in the final to win their Asia Cup title. With this victory, India lifted their sixth Asia Cup title.
84. International Women's Day (IWD) , International Women's Day was observed across the world on 8 March 2016.
85. Fitch, the global rating agency has maintained India's growth forecast for India at 7.5 % for this fiscal ( 2015-2016 ) and also sees higher growth around 7.7 % & 7.9 % over the next two financial years.
86. Union Minister for Women and Child Development Maneka Sanjay Gandhi launched Mahila e-Haat portal in New Delhi to facilitate women entrepreneurs to sell their products to buyers.
87. PM has selected another village for adoption in his Varanasi Constituency of U.P. for development under the Saansad Adarsh Gram Yojana (SAGY).
88. Union Finance Minister Arun Jaitley on 8 March 2016 announced to withdraw proposal to tax Employee Provident Fund (EPF) withdrawals.
89. Bajaj Power Generation Company has signed an agreement with the Indian Railways for electrification of the Lalitpur-Udaipura rail section under the public private partnership (PPP).
90. Banks have so far disbursed over Rs 1.15 lakh crore under Pradhan Mantri MUDRA Yojana (PMMY), Financial Services Secretary Anjuly Chib Duggal.
91. SoftBank is planning to separate its profitable domestic mobile business from its international business, which includes a majority stake in US mobile operator Sprint Corp. Both the subsidiaries will be 100-percent owned by SoftBank.
92. The US and South Korean troops on 7 March 2016 began their largest ever military exercises off the coast of the Korean peninsula.
93. President Francois Hollande has awarded the Legion d'Honneur, France's highest honour, to visiting Saudi crown prince Mohammed bin Nayef. Nayef was cited for his "efforts in the fight against terrorism and extremism."
94. Renowned Dogri poetess and writer Padma Sachdev has been awarded Krutitava Smagra Samman for 2015. The award was given by the Bharatiya Bhasha Parishad in Kolkata, West Bengal.
95. Maria Sharapova provisionally suspended after failing drugs test at Australian Open.
96. The country's largest mobile wallet provider Paytm has got into a strategic tie-up with Florida-based global provider dedicated to banking and payments technologies FIS Global.
97. Mumbai financial capital of India to host BRICS Friendship Cities Conclave in April involving top Urban Policy makers and Planners from BRICS Nations.
98. Iran's Islamic Revolutionary Guards Corps (IRGC) has successfully test-fired several ballistic missiles from silos across the country.
99. Government Karnataka has launched Mukhyamantri Santwana Harish Yojana to provide free medical treatment to road accident victims for the first 48 hours (2 days) in the nearest government or private hospital.
100. NTPC has been conferred the Research Investor Communication Award among the "Large Corporates" category .Director Finance of the Company. Shri K. Biswal, received the award at a ceremony held at BSE in Mumbai
101. Sun Pharmaceutical Industries Limited has appointed Indian Cricketer and Captain MS Dhoni as the Brand ambassador for its top selling health supplement Revital H.
102. Reliance Jio To Offer free Wi-Fi at 6 stadiums For T20 World Cup.
103. Telangana and Maharashtra governments will be signing Memoranda of Understanding to construct five barrages across Godavari and Pen Ganga rivers.
104. Germany will partner India in turning Bhubaneswar, Coimbatore and Kochi into smart cities, according to German ambassador to India Martin Ney. 108—feet tall idol of Lord Rishabhdeva, the first Teerthankar of Jains, carved out of a single rock, has entered the "Guinness World Records" as the world's tallest Jain statue.

- 105.** Thomas Cook (India) Ltd., India's leading integrated travel and travel related financial services company, has announced a strategic collaboration with Western Union Business Solutions, a business segment of The Western Union Company, and DCB Bank Limited (formerly Development Credit Bank Ltd.).
- 106.** Digital payments platform FreeCharge has partnered with Mexico-based chain of movie theatres, Cinapolis, that aims to provide its customers an easy to use and secure way of making payments.
- 107.** President Pranab Mukherjee on 8 March 2016 presented Nari Shakti Puraskar for the year 2015 to 15 women, 5 organisations, one state and panchayat. The awards were conferred on the occasion of International Women's Day at Rashtrapati Bhawan.
- 108.** The Cabinet headed by Prime Minister Narendra Modi has approved Pradhan Mantri Ujjwala Yojana with an outlay of Rs 8,000 crore for three years, Oil Minister Dharmendra Pradhan.
- 109.** Garuda Shakti, the 4th edition of joint training exercise between India and Indonesia will be hosted by Indonesia.
- 110.** The Union Cabinet approved amending the Mines and Minerals (Development and Regulation) Act to regulates mining sector activities in the country.
- 111.** Central government is expected to sign agreements worth over Rs. 72,000 crore with private players on port-related projects at the Indian Maritime Summit to be held in Mumbai.
- 112.** Government of India has announced today that in 2014-2015, 116 Public Sector Enterprises (PSUs) have spent an amount of rs. 2447.59 Crore on Corporate Social Responsibility (CSR) activities and no complaint has been received on misuse of these funds.
- 113.** Five healthcare ATMs have come up in four states. Those states are MP, Himachal Pradesh, Odisha and Andhra Pradesh.
- 114.** In Order to propel the Wind Energy Potential in India, Union government will soon unveil a policy to give incentives including an interest discount of 0.25 % for increasing capacity of Wind mills of up to 1MW.
- 115.** The government will divest 5 per cent stake in Container Corporation of India (Concor) through the offer for sale (OFS) route.
- 116.** Railways shifting the gears to introduce trains that run at speeds around 320 kmph, the railways have formed a new Special Purpose Vehicle (SPV) to implement the Mumbai-Ahmedabad High Speed Bullet Train project named the National High Speed Rail Corporation Limited.
- 117.** Private lender Yes Bank launched an all-women operated bank branch 'Yes Grace' on Cunningham Road here aimed at offering customised banking solutions to women.
- 118.** Gujarat has topped the list among the 21 cities in a race to be the best state in India having an investment potential, according to the report submit by economic think tank NCAER.
- 119.** IAF To Get The First Batch Of Women Fighter Pilots In June. Bhawna Kanth, Avani Chaturvedi, and Mohana Singh are likely to create history as India's first women fighter pilots.
- 120.** Sudhakar Rao will be the new Chairman of BSE and new Public Interest Director announced by BSE. He is going to replace Mr. S Ramadorai.
- 121.** Actress Sonakshi Sinha has become a Guinness World Records title-holder as she along with several other women participated in an initiative to set a record for 'most people painting their fingernails simultaneously'.
- 122.** The legendary music producer George Henry Martin has passed away in England. He was 90 years old.
- 123.** Rest of India (ROI) pull off an incredible chase to beat 41 times Ranji Trophy champions Mumbai by four wickets to win the Irani Trophy 2016.
- 124.** The NITI Aayog (GOIs premier think tank) has launched the Women Transforming India initiative on 8th March the International Women's Day in partnership with the UN in India and MyGov.
- 125.** India will launch 25 foreign satellites belonging to seven countries. The list is topped by the USA in 2016-17.
- 126.** The Rajya Sabha passed a landmark Real Estate Bill with a promise to secure the interests of homebuyers and developers in equal measure and remove corruption and inefficiency from the sector.
- 127.** The Union Government has appointed the former Supreme Court Judge justice Balbir Singh Chauhan as the Chairman of 21st Law Commission of India (LCI).
- 128.** Project Mausam is the initiative of Ministry of Culture which is to be implemented by the Archaeological Survey of India (ASI) as the nodal agency with research support of the Indira Gandhi National Centre for the Arts (IGNCA) and National Museum as associate bodies.
- 129.** The Upper House of the Parliament passed The National Waterways Bill, 2015, which was tabled in Lok Sabha on May 5, 2015 by the Minister of Road Transport and Highways and Shipping, Mr. NitinGadkari.

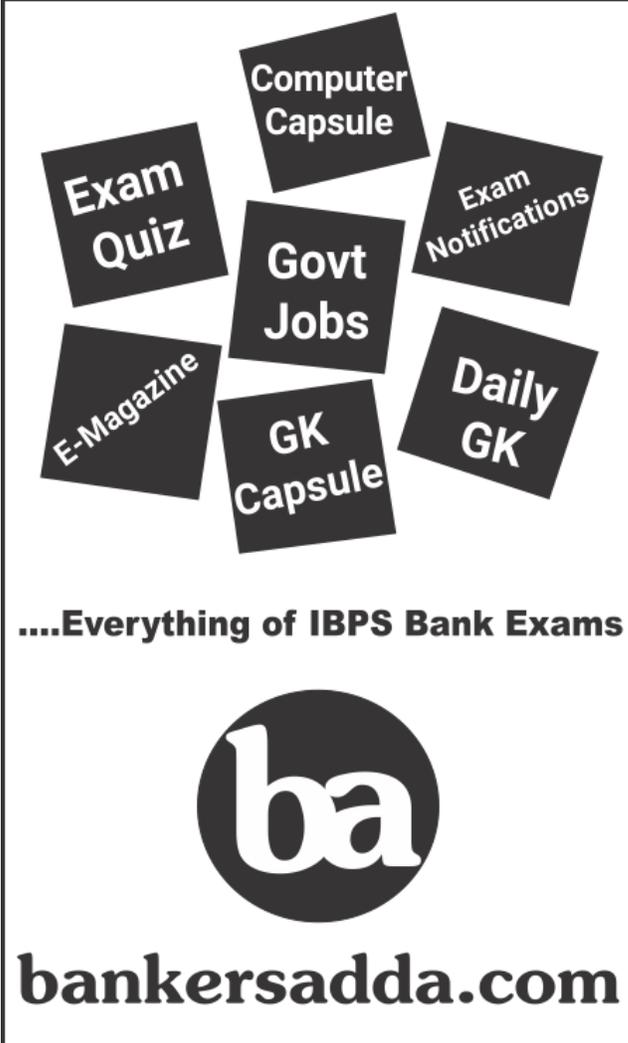
- 130.** To conserve several species of birds Government has signed 'Raptor MoU' - a Memorandum of Understanding (MoU) on conservation of birds of prey in Africa and Eurasia.
- 131.** Country's largest private sector lender ICICI Bank launched a credit-linked subsidy scheme for home loans under Pradhan Mantri Awas Yojana (PMAY).
- 132.** In the aftermath of National Governing Council meeting of Aluminium Association of India Tapan Chad elected as AAI chief Tapan Kumar Chand has been unanimously elected as the President of the metal governing body.
- 133.** Veteran Egyptian diplomat Ahmed Abul Gheit (73) has been selected as Secretary General of the Arab League.
- 134.** The renowned Bollywood actress Kangana Ranaut has announced as the brand ambassador of Reebok India. On the occasion the actress has also launched the new campaign of the brand titled "Be More Human".
- 135.** Renowned Brazil musician Nana Vasconcelos has passed away in the northeastern Brazilian city of Recife. He was suffering from lung cancer. He was 71.
- 136.** Board of Control for Cricket in India (BCCI) has entered into a 4 year partnership with Hyundai Motor India Ltd (HMIL) as an associate sponsor for all international matches at home. Hyundai is a Korean car maker.
- 137.** RITES (Public Sector Enterprise under Ministry of Railways) signed a contract to supply 18 Meter Gauge 1350 HP Diesel Electric Locomotives to Myanmar Railways.
- 138.** Minister for Railways Suresh Prabhu on 11th march 2016 has launched the 'clean my coach' service. The service allows a passenger to make request for a dirty coach to be swept and cleaned by sending an SMS on mobile number 58888 or by using an app or a designated website.
- 139.** The Aadhaar (Targeted Delivery of Financial and Other Subsidies, Benefits and Services) Bill, 2016, was passed by a voice vote after a brief debate, during which Finance Minister Arun Jaitley assured the House that details provided for the card will not be misused in any manner.
- 140.** The Union Cabinet on 10 March 2016 approved the proposal of the Ministry of Home Affairs to amend the Sikh Gurdwaras Act, 1925 through the Parliament retrospectively with effect from 8 October 2013.
- 141.** A 250 km-long protest march against plans to build Rampal Power Station, Indo-Bangladesh coal-fired power plant near the Sundarbans, was kick-started on 10 March 2016.
- 142.** Prime Minister Narendra Modi arrived in Patna, where he dedicated to the nation the newly constructed Digha-Sonepur rail-cum-road bridge and inaugurate a new rail bridge in Munger.
- 143.** A power generation unit at Kakrapar Atomic Power Station in Surat was shut down after leakage of heavy water.
- 144.** The country's GDP can grow by 7.9 per cent next fiscal if the monsoon is normal and the government implements the reform measures announced so far, domestic rating agency Crisil.
- 145.** HDFC Bank has chosen five start-ups it will work with to strengthen their web, mobile and payment offerings.
- 146.** Uber, the ride sharing service provider has opened its first Asian engineering center in Bengaluru highlighting the focus on India to solve the localized challenges of Uber users in the country.
- 147.** The defence ministry on Friday approved a Rs 13,000 crore weapons and sensors package for the seven new stealth frigates being constructed by defence shipyards for the Navy as well as accorded the initial approval for the Rs 7,200 crore project to indigenously manufacture 244 air defence guns for the IAF.
- 148.** The Union Cabinet chaired by the Prime Minister Narendra Modi has given its approval for signing and ratification of the Bay of Bengal Initiative on Multi Sectoral Technical and Economic Cooperation (BIMSTEC) Convention on Mutual Legal Assistance in Criminal Matters.
- 149.** Tezpur University won the annual Visitor's Award for the Best University.
- 150.** The Dakshina Kannada Zilla Panchayat, in association with the Karnataka Horticulture Department, will conduct a 'honey festival' in Mangaluru on March 12 and 13.
- 151.** India and International Monetary Fund (IMF) have decided to set up South Asia Regional Training and Technical Assistance Centre (SARTTC) in New Delhi.
- 152.** Mahindra & Mahindra Chairman and Managing Director (MD) Anand Mahindra was conferred with Chevalier de la Legion d'Honneur (Knight of the Legion of Honour) by French Government.
- 153.** Union Power Ministry has announced name UJALA for the LED based Domestic Efficient Lighting Programme (DELPL). UJALA is acronym for Unnat Jyoti by Affordable LEDs for All.
- 154.** Lieutenant General (Lt Gen) N P S Hira has been appointed as Deputy Chief of Army Staff. He will be now moving to Army Headquarters in New Delhi.
- 155.** India and United States have launched the Fulbright – Kalam Climate Fellowship enabling Indian research

- scholars to work with American institutions in the field of climate change.
- 156.** The Arab League has declared Lebanese movement Hezbollah, a Shia political organisation a terrorist group. The move comes after the Gulf Cooperation Council (GCC) had adopted the same stance.
- 157.** India successfully test-fired indigenously built nuclear-capable intermediate range Agni-I ballistic missile. It was launched from launch pad-4 of the Integrated Test Range (ITR) at Abdul Kalam Island (Wheeler Island) on the Odisha coast.
- 158.** The 13th meeting of Broadband Commission for Sustainable Development was held on 14 March 2016 in Dubai, United Arab Emirates (UAE). The meeting was held to promote the power of broadband networks and services for the 2030 Agenda for Sustainable Development.
- 159.** A Palestinian primary school teacher from a refugee camp, Hanan Al Hroub won one million dollar Global Teacher Prize. She was awarded for her outstanding contribution to the profession.
- 160.** Services won the Santosh Trophy National Football Championships title. In the summit clash at SEC Railway Stadium in Nagpur, Services defeated host Maharashtra 2-1.
- 161.** Maritime India Summit 2016 (MIS 2016), the maiden flagship initiative of the Union Ministry of Shipping, will be organised from 14 to 16 April 2016 at Bombay Convention and Exhibition Centre, Mumbai. Republic of Korea is the partner country for MIS 2016.
- 162.** 4th World Congress of Biosphere Reserves was inaugurated on 14 March 2016 at Lima in Peru. The event will be held from 14 March to 17 March 2016 to address different issues related to the Sustainable Development Goals (SDGs) and the Post 2015 Development Agenda.
- 163.** British Keyboardist and progressive rock legend Keith Emerson died on 10 March 2016. He was 71.
- 164.** Country's largest private sector lender ICICI Bank has tied up with marquee sports car maker Ferrari to launch co-branded credit card.
- 165.** Kerala Tourism's new campaign on responsible tourism has bagged the prestigious Golden City Gate Award at the world's leading travel trade show , ITB in the German capital of Berlin.
- 166.** Astronaut Scott Kelly will retire from NASA next month, after spending nearly a year in space and setting a record for the most cumulative days in space of any American.
- 167.** State-run telecommunication company, Bharat Sanchar Nigam Limited (BSNL) has launched free Wifi services at the Srinagar international airport.
- 168.** Indian boxer and Olympic bronze medalist Vijender Singh notched up his fourth successive knockout win in the professional boxing circuit, beating Hungary's Alexander Horvath in under three rounds in Liverpool.
- 169.** India Inc. is set to formally adopt the United Nations' (UN) agenda for the world's sustainable development and the 17 goals identified for its implementation.
- 170.** External Affairs Minister Sushma Swaraj will leave for Nepal to attend SAARC ministerial meet. Before the Ministerial meeting, a session of Programming Committee of SAARC will be held in Pokhara (Nepal). Standing Committee of the SAARC, which is a Foreign Secretaries-level Forum, will be held on 16th of this month.
- 171.** Anil Wadhwa, Ambassador of India to Italy, has been concurrently accredited as the next Ambassador of India to the Republic of San Marino with residence in Rome.
- 172.** Myanmar's Parliament elected Htin Kyaw as the first civilian president to lead the country after 53 years of military rule.
- 173.** Parytak Mitra Programme was in news on 14 March 2016. It came in news after the information on the same was provided in the Lok Sabha by the Minister of State for Culture and Tourism (I/C) Dr. Mahesh Sharma.
- 174.** Venezuela President Nicolas Maduro on 14 March 2016 declared a two-month extension on emergency powers meant to help shore up the country's crippled economy.
- 175.** India's fifth largest private sector Bank, YES Bank on 11 March 2016 signed a strategic Memorandum of Understanding (MoU) with India Brazil Chamber of Commerce (IBCC) to enable significant cooperation in terms of knowledge partnerships, project consultancy, B2B opportunities, skill and technology initiatives.
- 176.** Mumbai based Non-banking financial company Altico Capital India has appointed former HSBC India chairperson Naina Lal Kidwai as an independent non-executive director.
- 177.** India Post has selected Deloitte to advise it on setting up a payments bank and an agreement between the two will be signed on March 14.
- 178.** 323 villages have been electrified across the country during last week (from 6th to 13th March 2016) under Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY).
- 179.** Lin Dan from China has won the prestigious 2016 All England Badminton title in the men's singles category.

- the final match played at Birmingham, England he defeated Chinese teammate Tian Houwei by 21-9, 21-10 score.
- 180.** Mother Teresa will be made a saint on September 4, Pope Francis announced. 19 years after the death of the Nobel Laureate who spent 45 years serving the poor and sick on the streets of Kolkata.
  - 181.** 7th meeting of the Governing Board of the Indo-German Science and Technology Centre (IGSTC) was held on 15 March 2016 in New Delhi. The meeting was chaired by the Union Science & Technology and Earth Sciences Minister Dr. Harsh Vardhan.
  - 182.** The first of two 600 MW power generation units at the Singareni Thermal Power Plant (STPP) at Pegadapalli in Jaipur mandal of Adilabad District, was synchronised with top officials including Singareni Collieries Chairman and Managing Director N. Sridhar participating in it.
  - 183.** The Ministry of Tourism, Government of India has signed a Memorandum of Understanding (MOU) with the Ecotourism Society of India (ESOI) to take its commitments to Responsible and Sustainable tourism to the next level.
  - 184.** World Consumer Day is celebrated across the World on 15th March 2016.
  - 185.** Anita Brookner, the Booker prize-winning British author and renowned art historian, has died at the age of 87.
  - 186.** ICICI Bank on 15 March 2016 announced a new mobile payment solution Touch & Pay. This solution is based on Near Field Communication (NFC) technology and will enable the bank's customers to make secure contactless payments at retail stores using smartphones.
  - 187.** Union Government and Jammu & Kashmir Government signed a Memorandum of Understanding (MoU) under the Scheme Ujwal DISCOM Assurance Yojana (UDAY) on 15 March 2016 for operational and financial turnaround of the State's Power Distribution Department.
  - 188.** India ranked 118th out of 156 countries on the United Nations World Happiness Index (WHI) 2016 & Denmark takes the top spot as the happiest country in the world. It has replaced Switzerland.
  - 189.** The TIMEs magazine cited Modi's unconventional announcement on Twitter of his visit to Pakistan last year while naming him among 'The 30 Most Influential People on the Internet' for the second year in a row in this year's unranked list.
  - 190.** The UN honoured the founder of India-based Miavy Systems Abdulqadir Rashik for the Unite Ideas LinksSDGs Data Visualization Challenge.
  - 191.** The Reserve Bank of India is likely to pay the government Rs 57,000 crore in dividends in 2016-17, slightly less than the amount it paid in the current fiscal but much higher than that in earlier years.
  - 192.** A total of fourteen Indian investors have been featured in a list of top 100 venture capitalists in the world.
  - 193.** Central government is implementing the Centrally Sponsored Scheme of Rashtriya Uchchar Shiksha Abhiyan (RUSA) for providing financial support
  - 194.** to proposals contained in State Higher Education Plan (SHEP) approved by the State Higher Education Councils (SHECs) in order to achieve the objectives of equity, access and quality.
  - 195.** Under Pradhan Mantri Mudra Yojana Loans worth Rs1.09 lakh crore have been sanctioned to small entrepreneurs, loans worth over Rs.1.09 lakh crore were given to over 2.96 crore beneficiaries.
  - 196.** Jammu & Kashmir (J&K) became the 9th state to sign the memorandum of understanding (MoU) for power distribution reforms, the Ujwal Discoms Assurance Yojana (UDAY).
  - 197.** India's largest telecom operator by subscriber base, Bharti Airtel, said on Thursday that it has acquired Videocon Telecom for Rs 4,428 crore.
  - 198.** The India Aviation 2016, an international exhibition and conference on civil aviation kicked off in Hyderabad, Telangana.
  - 199.** Michelle Yeoh, the award winning action heroine has been appointed as United Nations Development Programme (UNDP) Goodwill Ambassador.
  - 200.** Famous Shehnai exponent Ustad Ali Ahmad Hussain Khan has passed away in Kolkata, West Bengal. He was 77. He was suffering from kidney related problem and hospitalized from the past few days.
  - 201.** Television magician Paul Daniels has died aged 77 after being diagnosed with a brain tumor.
  - 202.** The United Nations (UN) has suspended Russian tennis player Maria Sharapova as Goodwill Ambassador of the organisation after she was tested positive on doping allegations.
  - 203.** Prime Minister Narendra Modi will inaugurate the World Sufi Forum in New Delhi, where more than 200 Indian and international delegates, including Sufi Shuyukh, spiritual

- leaders, scholars, academicians and masters of Sufism, are participating.
- 204.** The Government of India has signed a loan agreement with the World Bank for Neeranchal National Watershed Project in Madhya Pradesh.
- 205.** Information and Broadcasting Minister ArunJaitley will inaugurate the 6th National Community Radio Sammelan in New Delhi.
- 206.** The Indian Railway Ministry has announced that it has signed an agreement with the Indian Space Research Organisation (ISRO).
- 207.** Desmi Technology a leading international manufacturer of pumps and pump solutions plans to set up a plant on the outskirts of Hyderabad shortly.
- 208.** According to the data from credit information bureau CIBIL, more than 5,600 borrowers, who owe banks close to Rs 60,000 crore, have been declared wilful defaulters by lenders as on December 31.
- 209.** Royal Challengers Bangalore (RCB) has confirmed to the BCCI that Russell Adams has been designated as points man for all further correspondence.
- 210.** Tata Consultancy Services (TCS), India's leading IT services provider, announced a three year partnership with the Virgin Money London Marathon to enhance the digital experience delivered to marathon participants.
- 211.** The United Nations Population Fund (UNFPA), the lead UN agency for delivery of a world where every pregnancy is wanted, every childbirth is safe and every young person's potential is fulfilled, appointed actor and activist Ashley Judd as its Goodwill Ambassador.
- 212.** Surat is the cleanest railway station in the country, followed by Rajkot and Bilaspur (Chhattisgarh), according to an Indian Railway Catering and Tourism Corporation (IRCTC) survey released.
- 213.** Hitachi-Omron Terminal Solutions Corp (Hitachi-Omron Terminal Solutions) has established Hitachi Terminal Solutions India Pvt Ltd (Hitachi Terminal Solutions India) to be based in Bengaluru as an ATM manufacturing company.
- 214.** Air Asia India has made an announcement on Thursday that Mr. Amar Abrol will be the new CEO of the company with the effect from April 1, 2016.
- 215.** Mobile wallet and digital payments player FreeCharge has announced the launch of its 'Chat and Pay' feature. The company said this feature enables social payments between users and merchants.
- 216.** Suresh Senapaty, the ex Wipro CFO has been appointed as the new Chairman by Honeywell Automation India Ltd (HAIL) on Thursday.
- 217.** Actor Larry Drake, known for playing Benny on TV show "L.A. Law", has died. He was 66.
- 218.** The government slashed interest rates on small-savings schemes, including the Public Provident Fund and Kisan Vikas Patra.
- 219.** Prime Minister Narendra Modi inaugurate three-day 'Krishi Unnati Mela' providing information on new farm schemes and technologies that will help farmers double their incomes within the next few years.
- 220.** Supreme Court allowed now use of pictures of Chief Ministers, Governors and Cabinet ministers in the government's media advertisements.
- 221.** Union Minister of Consumer Affairs, Food and Public Distribution Ram Vilas Paswan on 17 March 2016 launched the Online Depot System in New Delhi to automate all the operations of Food Corporation of India (FCI) depots.
- 222.** Indian Overseas Bank (IOB) has become the first bank to commence the sale of Indian Gold Coin (IGC) in the domestic market.
- 223.** India and Bangladesh entered into a new era of petroleum trade with a special goodwill train loaded with High Speed Diesel rolling down from India to Bangladesh.
- 224.** Turkey and the EU have reached a controversial deal European leaders hope will stop the flow of refugees to the continent in return for political and financial concessions for Ankara.
- 225.** India and Australia ink pact to avoid double social security contribution Under this agreement, employees of India deputed to Australia and vice versa will not have to make double social security contribution.
- 226.** Russia gets its own Rating Firm named ACRA.
- 227.** Pfizer, the pharmaceutical major has announced the appointed of Mr. S Sridhar as its new Managing Director (MD) with immediate effect for a period of five years.
- 228.** The Airport Authority Of India (AAI) has given the additional charge of Chairman to Mr. Sudhir Raheja.
- 229.** An Indian Professor has become the president of a scholarly group in the US dedicated to international studies. Professor TV Paul took over as the 56th president of International Studies Association (ISA).
- 230.** Tikka Shatruijit Singh, chief representative in Asia for French multinational LVMH (Moët Hennessy-Louis Vuitton) and advisor to the chairman of Louis Vuitton, has

- spearheaded the development of Louis Vuitton's business in India.
- 231.** The 10th edition of Asian Film Awards (AFA), which was held at the Venetian Theatre in Macau, China, honoured diverse talents across Asian cinema.
- 232.** World Forestry Day or International Day of Forests is celebrated worldwide every year on 21st of March.
- 233.** The government has relaxed FDI norms for the insurance sector by permitting overseas companies to buy 49 percent stake in domestic insurers without prior approval, which is another effort to bring more foreign players into India's vast insurance market.
- 234.** Within a month of successful commissioning of a 270 MW thermal generating unit in the state, the state run BHEL ( Bharat Heavy Electricals Limited ) has commissioned another 270 MW unit at Goindwal Sahib coal-fired power project in Punjab.
- 235.** India-born brothers G P Hinduja and S P Hinduja topped the 'Asian Rich List 2016' released here last night and the annual rankings showed that they had added one billion pounds to their personal fortune in a year to be worth an estimated 16.5 billion pounds.
- 236.** The United Nations Secretary General Ban Ki Moon has appointed Red, the leader of the "Angry Birds" mobile game characters as an envoy to inspire climate action toward a sustainable and happier future for all.
- 237.** Cairn India Ltd. has remained in the top deciles of safety performance amongst peer group companies for the FICCI Safety Systems Excellence Award in Manufacturing.
- 238.** American multinational technology company Cisco Systems Inc will invest over \$100 million over the next 18 to 24 months to support the country's ambitious plan to connect thousands of its villages to the internet and create jobs.
- 239.** One of Mumbai oldest colleges, the Wilson College has adopted the Charni Road station here for cleanliness and upkeep as part of the Swachh Bharat Abhiyan.
- 240.** US President Barack Obama embarked on a historic trip to Cuba more than a year after Washington reset its foreign policy towards the island following decades of Cold War animosity that almost led to a nuclear war.
- 241.** Britain's Prince Harry reached Kathmandu on a five-day visit to Nepal to mark the 200th anniversary of the bilateral ties.
- 242.** The US President Barack Obama has named the General Lori Robinson to head the U.S. combatant command. The position is one of the most senior in the US Military and Robinson becomes the first woman to head this position.
- 243.** FC Barcelona's player Lionel Messi has been named as Huawei global ambassador.
- 244.** India star wrestler Yogeshwar Dutt secured an Olympic quota place for India with a gold-medal finish in the men's 65kg freestyle category on an otherwise disappointing day for the country's grapplers in the Asian Olympic Qualification tournament in Astana, Kazakhstan.
- 245.** An Indian student is the winner of the first Noor Inayat Khan Prize for 2016, the London-based Noor Inayat Khan Memorial Trust announced.
- 246.** Bangladesh left-arm spinner Arafat Sunny and pacer Taskin Ahmed have been suspended from bowling in international cricket council with immediate effect after an independent assessment found their bowling actions to be illegal, dealing a massive blow to the team's campaign in the ongoing World Twenty20.



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## GK Tricky Notes: Indian States Touching the Borders of Neighboring Countries

### 1. Indian States touching Pakistan

**Mind Trick: ("PARAG JAMMU gaya")**

**Explanation:**

**Pa** = Punjab

**Ra** = Rajasthan

**G** = Gujarat

**Jammu** = J&K

### 2. Indian States Touching Myanmar

**Mind Trick ("ARUNA MAMI")**

**Explanation:**

**ARU** = ARUNACHAL PARDESH

**NA** = NAGALAND

**MA** = MANIPUR

**MI** = MIJORAM

### 3. Indian States Touching Bangladesh

**Mind Trick ("BAAP MEra A-MITRA")**

**Explanation of Trick:**

1. **Ba** = Bangladesh

2. **P** = Pacchim (west) Bengal

3. **Me** = Meghalaya

4. **A** = Assam

5. **Mi** = Mizoram

6. **Tra** = Tripura

### 4. Indian States Touching China

**Mind Trick: ("HI AAJ kaise ho tu-SI")**

**Explanation of Trick:**

1. **Hi** = Himachal Pradesh

2. **Aa** = Arunachal Pradesh

3. **J** = Jammu and Kashmir

4. **Si** = Sikkim

### 5. Indian States Touching Bhutan

**Mind Trick: ("SAAB")**

**Explanation of Trick:**

1. **S** = SIKKIM

2. **A** = ARUNACHAL PRADESH

3. **A** = ASSAM

4. **B** = BENGAL

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 Bhagalpur | Chennai | Thiruvananthapuram | Haldwani | Sultanpur

## CURRENT AFFAIRS ZINGER : FEBRUARY 2016

1. The Bharat Electronics Limited will set up a Rs.250-crore plant in state in India to make IR seekers, night vision devices and thermal imaging cameras? - **Nimmakuru in Krishna District of Andhra Pradesh**
2. As per the new revision, the voting rights of India in IMF is increased from 2.3% to how much? - **2.6 per cent**
3. Name the Afghanistan's Chief Executive Officer and Head of the Council of Ministers who was on a visit to India recently? - **Abdullah Abdullah**
4. Name the Former Army chief General who was cremated with full military honours in Delhi recently? - **K.V. Krishna Rao**
5. Which university has established a professorship in Sanskrit studies from \$3.5-million donated by an Indian-American couple to help the varsity advance its study of the Indian subcontinent? - **The University of Chicago**
6. Name the Former India opener who was appointed as the mentor of the Kings XI Punjab team for the upcoming Indian Premier League (IPL). - **Virender Sehwag**
7. Which bank, which is a 90-year-old private sector bank, is shedding its brick-and-mortar model by introducing digital technology to shore-up its customer base? - **Lakshmi Vilas Bank (LVB)**
8. Name the company which the technology giant Microsoft is all set to buy which is a software keyboard and SDK application maker. – **SwiftKey**
9. Who took charge as the Director General of the Sashastra Seema Bal (SSB) recently? - **Archana Ramasundaram**
10. Reliance Group Chairman Anil Ambani announced the establishment of Dhirubhai Ambani Centre for Innovation and Research in Aerospace at Whitefield in which city? – **Bengaluru**
11. What is the name of the NASA's most powerful rocket ever that will launch an uncrewed Orion spacecraft to a stable orbit beyond the Moon in 2018 — will also carry 13 tiny satellites to test innovative ideas? - **The Space Launch System (SLS)**
12. Name the Former Pakistani cricketer, who was the country's oldest living Test cricketer, who passed away at the age of 88. - **Israr Ali**
13. Who is the India's Permanent Representative to the IAEA, who recently delivered the instrument of ratification to Juan Carlos Lentijo, the acting Director General of the IAEA and other officials? - **Rajiva Misra**
14. Name the national captain of Indian Hockey team against whom a 21-year-old British woman filed an assault case. - **Sardar Singh**
15. Cisco Systems Inc said it was buying which company, which is a start-up that connects devices such as cars and medical devices to the Internet, for \$1.4 billion in cash and equity awards, its largest acquisition since 2013? - **Jasper Technologies Inc.**
16. Who has been appointed as the head of Head of Mission and Force Commander of the United Nations Disengagement Observer Force (UNDOF)? - **Major General Jai Shanker Menon of the Indian Army**
17. PM Narendra Modi inaugurated the Rs. 10,000-crore petrochemical plant that will make raw material for manufacturing plastic and a wax making unit at? – **Dibrugarh**
18. Which airlines has suspended five crew members who were part of a chartered flight after aviation watchdog DGCA took serious note of an episode in which singer Sonu Nigam was allowed to belt out Bollywood numbers using the in-flight announcement system? - **Jet Airways**
19. Which company now comes before Apple in the list of the world's most valuable companies? - **Alphabet**
20. Name the Cartoonist who was suffering from a brain tumour, passed away at a private city hospital. - **Sudhir Tailang**
21. Which country has defied international warnings and launched a long-range rocket that the United Nations and others call a cover for a banned test of technology for a missile that could strike the U.S. mainland? - **North Korea**
22. External Affairs Minister Sushma Swaraj met leaders of Sri Lanka's main Tamil party TNA led by its chief. Name the chief of the party. **R Sampanthan**
23. India with which country have started talks on exchanging prisoners that are of mutual interest? – **Thailand**
24. Who became the most expensive player in the auctioned of IPL 2016 this year? - **Shane Watson**
25. Who became the most expensive Indian player in the auctioned of IPL 2016 this year? - **Pawan Negi**
26. Which country will host the first-ever global maritime summit in April this year? - **India**
27. A Parliamentary Standing Committee on Science and Technology, Environment and Forests blamed the BJP-led Goa government for its "tardy implementation of environmental laws and regulations." The committee was headed by? - **Rajya Sabha member Ashwini Kumar**
28. Name the Arjuna awardee Assistant Commandant of the India Reserve Battalion, who allegedly committed suicide by hanging from a ceiling fan? - **Narinder Singh**

29. In a maiden initiative, a squad of 162 dogs is being raised by which force to aid its personnel in rescuing people trapped under debris in the aftermath of natural calamities like earthquake? - **National Disaster Response Force (NDRF)** -
30. In an upshot of Prime Minister Narendra Modi's visit to the UAE, home to 2.6 million expatriate Indians, Abu Dhabi's Crown Prince and Deputy Supreme Commander of the UAE Armed Forces, who will arrive in New Delhi on February 10. Name the king? - **Sheikh Mohamed bin Zayed Al Nahyan**
31. Who was appointed as the Director General of TERI? - **Dr. Ajay Mathur**
32. Name the Star player of India who clinched the gold in women's individual squash in SAG 2016 after beating Maria Toorpaki Wazir of Pakistan. - **Joshna Chinappa**
33. Name the college which stated that it has achieved 100 per cent final placement for its 30th batch of 446 students in a record time of just over three days? Answer. The Indian Institute of Management –**Lucknow**
34. Name the noted Hindi and Urdu poet who died recently. - **Nida Fazli**
35. Out of the total 16 Gold medals in Wrestling, India won how many Gold medals in the 12th South Asian Games? - **14 Gold Medals**
36. Name the Former Prime Minister of Nepal and Nepali Congress President who passed away due to Pneumonia at his residence. - **Sushil Koirala**
37. Who becomes the new Chief Justice of Bombay High Court? - **Dhirendra Hiralal Waghela**
38. Iran's President Hassan Rouhani awarded the "Medal of Merit" to which person recently? - **Foreign Minister Mohammad Javad Zarif**
39. Name the soldier who died, after being buried under snow in the Siachen for six days recently? - **Lance Naik Hanumanthappa Koppad**
40. The Reserve Bank of India (RBI) has directed commercial banks to accelerate provisioning requirement by how much percent every quarter so that by March 31, 2017, provisioning reached the optimum level in line with sub-standard accounts? - **2.5 per cent**
41. Name the head of Flipkart's Commerce and Advertising business who quit recently? - **Mukesh Bansal**
42. India and with which country signed nine agreements covering cooperation in the fields of currency swap, culture, investments in the infrastructure sector, renewable energy, space research, insurance supervision, cyber security, skill development and commercial information sharing? - **The United Arab Emirates (UAE)**
43. Name the Barcelona forward who has been named La Liga's player of the month for January, the first time he has won the award since its introduction in 2013? - **Lionel Messi**
44. The disciplinary committee of the Board of Control for Cricket in India (BCCI) banned which Pakistan umpire for five years on charges of "corruption" and "misconduct" in relation to the Indian Premier League betting and spot-fixing scandal of 2013? - **Asad Rauf**
45. The government has appointed whom as the next Secretary to the Department of Industrial Policy and Promotion (DIPP) in the Commerce and Industry Ministry that spearheads the Make In India and Startup India programmes? - **Ramesh Abhishek**
46. Name the Chief Executive Officer of Lupin Ltd. who have been chosen the EY Entrepreneur Of The Year 2015? - **Vinita Gupta**
47. The RBI signed a pact with which country Central Bank to enter into a Currency Swap Agreement, which is aimed at strengthening economic ties with the Gulf nation? - **Central Bank of the UAE**
48. Which city has been ranked first in terms of cleanliness again after 2014, followed by Chandigarh, Tiruchirappalli and NDMC area of the national capital, according to a QCI survey? - **Mysuru**
49. The government on Monday unveiled which policy to give an impetus to the capital goods sector and a leg up to the Make in India initiative? - **National Capital Goods Policy**
50. Which company stated that it plans to invest between Rs 2,000 crore and 2,500 crore for development of infrastructure at Gopalpur in Odisha in the near-term? - **Tata Steel SEZ**
51. Which Railway Corporation will seek the help of the Indian Railways and all its state shareholders to raise additional equity in near future to fund its expansion? - **The Konkan Railway corporation Ltd. (KRCL)**
52. Name the actor who won the best actor at BAFTA 2016? - **Leonardo DiCaprio**
53. Which player autobiography entering the Limca Book of Records for being the best-selling adult hardback across both fiction and non-fiction categories? - **Sachin Tendulkar**
54. Name the Eminent Hindustani classical vocalist passed away at a private hospital following old-age related ailments? - **Ustad Abdul Rashid Khan**
55. Name the company which is the owner of the world's biggest refining complex, is preparing to lift oil from Iran next month after a gap of about five years? - **India's Reliance Industries Ltd**
56. Name the person who will become the first U.S. President to make a historic trip to Cuba after a gap of 80 years? - **Barack Obama**

57. India's fourth largest IT services company HCL Technologies has acquired which company? – **Volvo**
58. IT major Infosys has appointed whom as the Chief Executive Officer of Infosys Consulting Holding AG (formerly Infosys Lodestone) with effect from April 1? – **Michael Pesch**
59. Name the leading Indian e-commerce company which said that its mobile application on Google Android Playstore is the first Indian app to clock 50 million installations? – **Flipkart**
60. Who has been appointed as the head of the Committee which will look into the demands of the Jat community for reservation in government jobs? – **M. Venkaiah Naidu**
61. Which country PM's said that the ties between India and their country should be based on the "principle of sovereign equality"? – **Nepal's Prime Minister K.P. Sharma Oli**
62. The government announced it will be divesting five per cent of its stake in which company through the offer-for-sale route? – **NTPC**
63. The U.S. Air Force launched which missile from California's central coast in the latest test of the intercontinental system? – **Minute man 3 missile**
64. Name the New Zealand player who retired from International Cricket after playing his last match against Australia? – **Brendon McCullum**
65. According to Hurun Global Rich List 2016, India added how many new billionaires with Mukesh Ambani, Chairman of Reliance Industries (RIL), emerging at the top with a personal wealth of \$26 billion? – **27**
66. India's second largest IT service provider Infosys said the company has extended the tenure of its CEO and MD for another two years. Name the MD & CEO. – **Vishal Sikka**
67. Which company will invest over Rs 10,200 crore on mine development as the company embarks on a modernisation and expansion programme? – **SAIL**
68. The government is considering a proposal to increase the cap on foreign institutional investment in public sector banks to how much percent from 20 per cent? – **49 per cent**
69. Name the persons who have been appointed as the Information Commissioners at the Central Information Commission (CIC) recently. – **Amitava Bhattacharyya, Bimal Julka and Divya Prakash Sinha**
70. Who has been appointed as the Director General (DG) of Coast Guard, the country's coastal protection force? – **Rajendra Singh**
71. Which capital is the new "Billionaire Capital of the World"? – **Beijing**
72. Facebook launched which feature which is an extension of the "Like" button & is now available worldwide? – **"Reactions"**
73. Retirement fund body EPFO has tightened norms on withdrawal of provident fund as the subscribers will be able to claim withdrawal of their provident fund after attaining age of how many years? – **57 years**
74. Who has resigned as the non-executive chairman of United Spirits Limited (USL) with immediate effect? – **Vijay Mallya**
75. Name the Former Sri Lankan Army chief, whose nomination to Parliament through the ruling United National Party (UNP)'s national list has been challenged in the Supreme Court, was sworn in as a Cabinet Minister. – **Sarath Fonseka**
76. Who has been appointed as the first Chairman of the Banks Board Bureau, which will advise the government on top-level appointments at public sector lenders and ways to address the bad loans problem among other issues? – **Former CAG Vinod Rai**
77. Name the NASA astronaut who will return after nearly a year aboard the International Space Station. – **Scott Kelly**
78. Name the Malayalam film which won a prestigious Crystal Bear award at the Berlin film festival 2016 – **Ottal (The Trap)**
79. Who won the Best Actor award in the 88th Oscars? – **Leonardo DiCaprio**
80. What is the name of the party which was announced by V. Ponraj, who was scientific adviser to Kalam? – **'Abdul Kalam Vision India Party'**
81. Which movie won the Best Pictures award at the Oscars 2016? – **Spotlight**

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## Twisted Ones Reasoning

**Directions (1-5):** Study the following information carefully and answer the questions.

There are seven person – Gemma, Natalie, Gillian, Jennifer, Jeri, Emma and Maradona – who teach different subjects viz- Sanskrit, Geography, History, Civics, Economics, Hindi and English but not necessarily in the same order. They teach on different days of the week starting from Monday. They like different colours, viz- white, yellow, Red, Black, Brown, Green and Pink but not necessarily in the same order.

Natalie, who likes Green, teacher on the fourth day of the week but neither Sanskrit nor English. Two persons teach b/w Natalie and Emma neither of them teaches on the 1st day of the week. There is one person b/w Gemma and Gillian. But Gillian does not teach either on 1st or on 3rd day of the week. Gillian likes yellow colour and teachers Sanskrit. The one who teaches History teaches on the last day of the week and likes Red colour. Jennifer does not teach on the day either immediately before or immediately after the classes by Gemma, who doesn't like either Brown or white or Black colour.

Maradona teaches immediately after Gillian and he likes white colour. Jeri does not like Brown colour and teaches Hindi Gemma does not teach either Economics or civics. The one who teaches Geography takes class immediately after the day when Sanskrit has been taught.

- Which of the following combinations is definitely false.
  - Gillian – Yellow – Sanskrit
  - Gemma – Pink – English
  - Jeri – Black – Hindi
  - Emma – Yellow – Sanskrit
  - None of these
- Who among the following teaches on the 5th day of the week?
 

(a) Maradona	(b) Emma	(c) Gillian
(d) Jeri	(e) None	
- Who teaches civics?
 

(a) Natalie	(b) Gemma	(c) Jennifer
(d) either Jennifer or Natalie	(e) None	
- If 'Natalie' is related to 'yellow' and 'Maradona' is related to 'Red' then which of the following is 'Gemma' related to \_\_\_\_
 

(a) Brown	(b) Green	(c) Black
(d) Pink	(e) None	
- Who teaches Economics?
 

(a) Natalie	(b) Jennifer	(c) Gemma
(d) Can't be determined	(e) None of these	

**Directions (6-10):** Read 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 equal distance between adjacent persons. In row 1 Meena, Mansi, Maya, Meenakshi and Monalisha are seated and all of them are facing North and in row 2 Megha, Madhubala, Madhvi, Mahima and Madhuri, are seated and are facing south. (but not necessarily in the same order). Each person also likes a different cartoon character, namely Batman, Ben 10, Dexter, Donald Duck, Tom, Jerry, Noddy, Oswald, Superman and Spiderman (not necessarily in the same order). Monalisha sits exactly in the centre of the row and faces the one who likes Tom. Only one person sits between Mahima and the one who likes Tom. Mahima faces one of the immediate neighbours of the one who likes Jerry. Only two people sit between Mansi and the one who likes Jerry. Mansi faces the one who likes Oswald. Megha faces one of the immediate neighbours of Maya. Megha does not like Oswald. Meenakshi is an immediate neighbour of Maya. The one who likes Donald Duck is not an immediate neighbour of Maya. Madhuri is not an immediate neighbour of Megha and faces the one who likes Ben 10. Madhvi faces the one who likes Superman. The one who likes Spiderman faces north. Megha does not face the one who likes Spiderman. The one who likes Batman sits on the immediate right of the person who likes Noddy. Mahima does not like Batman.

- Which of the following pairs represent the people sitting at the extreme ends of two rows?
 

(a) Mahima, Meenakshi	(b) Madhubala, Maya
(c) Megha, Monalisha	(d) Madhubala, Meena
(e) Madhvi, Maya	
- Who amongst the following likes Donald Duck?
 

(a) Mahima	(b) Megha	(c) Madhuri
(d) Madhvi	(e) Madhubala	
- Who amongst the following is the immediate neighbour of the one who likes Spiderman?
 

(a) The one who likes Jerry	
(b) The one who like Noddy	(c) Mansi
(d) The one who likes Ben 10	(e) Madhuri
- Which of the following cartoon characters does Madhuri like?
 

(a) Batman	(b) Tom	(c) Jerry
(d) Noddy	(e) Oswald .	
- Who amongst the following likes BEN 10?
 

(a) Mahima	(b) Megha	(c) Madhuri
(d) Mansi	(e) Madhubala	

**Directions (11-15):** Given below is a passage followed by several inferences. Examine the inferences separately in the context of the passage, and determine whether they are true or false. Mark

- (a) If the inference is **definitely true**, i.e. it directly follows from the statement of facts given.
- (b) If the inference is **probably true**, though not directly true, in the light of the statement of facts given.
- (c) If the inference is **uncertain**, i.e. data is insufficient to decide whether the inference is true or false.
- (d) If the inference is **probably false**, though not definitely false, in the light of the statement of facts given.
- (e) If the inference is **definitely false**, i.e. it cannot possibly be inferred from the statement of facts given.

The most recent case of euthanasia in India was that of a Mumbai couple who approached the courts to seek medical termination of a pregnancy after the legally permissible abortion time limit has been crossed. According to the parents, the fetus had been detected to have serious disabilities which would affect the quality of life of the child is born. The court denied them permission, giving its own logic underlining the unborn baby's right to live despite disabilities. Fortunately or unfortunately, the issue was resolved in a different way when the mother suffered a miscarriage a little later and lost the baby.

Globally, in a landmark case, a British teenage girl won the right to die the way she wants. Terminally ill Hannah Jones, just 13 years old, has spent much of the past eight years in hospital wards undergoing treatment for leukemia. Euthanasia is complex because the issue is attached to ending life, voluntarily. Surprisingly, today it has been legalized only in a handful of countries. But here too and elsewhere the many forms of euthanasia have been taken into consideration.

- 11. The courts in India have the authority to sanction euthanasia.
- 12. The courts consider the age of the fetus before granting permission for abortion.
- 13. It is fortunate that the Mumbai couple lost the baby.
- 14. The author is against legalizing euthanasia.
- 15. The British courts allow anyone to die the way one want.

**Solutions**

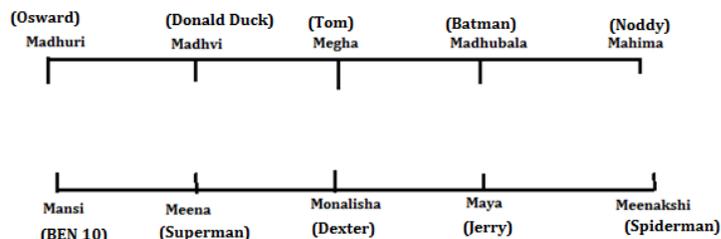
**Directions (1-5):**

Day	Person	Colour	Subject
Monday	Jennifer	Brown	Civics/Economics
Tuesday	Jeri	Black	Hindi
Wednesday	Gemma	Pink	English
Thursday	Natalie	Green	Civics/Economics
Friday	Gillian	Yellow	Sanskrit

Saturday	Maradona	White	Geography
Sunday	Emma	Red	History

- 1. (d)
- 2. (c)
- 3. (d)
- 4. (b)
- 5. (d)

**Directions (6-10):**



- 6. (a)
- 7. (d)
- 8. (a)
- 9. (e)
- 10. (d)

**Directions (11-15):**

- 11. (a): The Mumbai couple approached the court because the courts have the authority to sanction euthanasia. Hence, the inference is definitely true.
- 12. (a): In the first passage, the couple approached the court as the legally permissible abortion time limit had been crossed. From this we can definitely conclude that there is a legally permissible time limit for abortion. So, the inference is definitely true.
- 13. (e): At the end of the first paragraph "Fortunately or unfortunately the issue..... lost the baby". The author himself is not sure whether the incident is fortunate or unfortunate. So, the inference is definitely false.
- 14. (e): In the second paragraph it is given that "surprisingly today it has been.....countries". From this we can conclude that the author is in favor of euthanasia. Hence, the inference is definitely false.
- 15. (e): Nowhere in the world one can die in the way one want, but if the person cannot be cured by any medical treatment, those persons can die that to with the permission of the courts. So, the inference is definitely false.



- I. A and B started the business by investing in ratio 3 : 5.  
 II. C joined after 6 months with Rs.4 lakh  
 III. After two years, A's share in profit was Rs. 60000.  
 (a) I and III are sufficient  
 (b) II and III are sufficient  
 (c) Either I or II and III are sufficient  
 (d) All I, II and III are necessary to answer the question  
 (e) The question can't be answered even with all I, II and III
15. How many students secured atleast 60% marks in Mathematics in a class of 240 students?  
 I. 20% of the students in the class secured 80% and above marks in Mathematics.  
 II. 80 students have secured more than 50% but less than 60% marks in Mathematics.  
 III. The number of students who secured marks between 60% and 79% was equal to the number of students who secured less than 50% marks in Mathematics.  
 (a) I and II are sufficient  
 (b) II and III are sufficient  
 (c) II and III are sufficient  
 (d) All I, II and III are necessary to answer the question  
 (e) The question can't be answered even with all I, II and III

10. (3) The pattern is  $\times 0.5 + 0.5, \times 1.5 + 1.5, \times 2.5 + 2.5, \times 3.5 + 3.5$   
 11. (d); Taking all statement together  
 Let the profit earned by company in 2001 =  $x$  and 2002 =  $y$   
 $\therefore$  Profit earned in 2003 =  $1.4x$   
 $x + y = 20 \text{ crore}$   
 From statement III,  
 $1.4x = y \times \frac{80}{100}$   
 $x = \frac{4}{5} \times \frac{1}{1.4} y$   
 $x = \frac{4}{7} y$   
 From eqs. (i) and (ii), we can get the required profit.
12. (b); I and II are sufficient  
 13. (e); The question cannot be answered even with all I, II and III  
 14. (a); I and III are sufficient.  
 15. (d); All I, II and III are necessary to answer the question.

**Solutions**

1. (3)  $x = \frac{5}{7}, \frac{4}{5}; y = \frac{7}{8}, \frac{6}{7}; y > x$   
 2. (1)  $x = 17; y = 15; x > y$   
 3. (2)  $x = -2, 7; y = -2, -5; x \geq y$   
 4. (5)  $x = +59, -59; y = \pm\sqrt{20}$ ; No relation.  
 5. (1)  $x = \frac{3}{5}, -1; y = -2, \frac{-3}{2}; x > y$   
 6. (5) The pattern is  $\times 3 + 2, \times 3 + 2, \times 3 + 2, \dots$   
 7. (1) The pattern is  $\times 1 + 1^2, \times 2 + 2^2, \times 3 + 3^2, \times 4 + 4^2, \dots$   
 8. (4) The pattern is  $\times 2 - 1, \times 2 - 1, \times 2 - 1, \times 2 - 1, \dots$   
 9. (2) The pattern is  $\times 2 - 1, \times 2 - 1, \times 2 - 1, \times 2 - 1, \dots$



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## Twisted Ones English Language

**Direction (1-5):** Read each sentence to find out whether there is any grammatical error or idiomatic 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 (5). (Ignore errors of punctuation, if any.)

1. State Bank of India's bad loans (1)/ may rise further at the next (2)/ quarter which could adversely (3)/ impact the company's profits. (4)/ No error. (5)
2. Our Japan desk would try and (1)/ provide the kind of information which (2)/ Japanese investors and entrepreneurs should (3)/ know in order to come to this country. (4)/ No error. (5)
3. The arbitration process does not (1)/ stop the Tax Department from (2)/ going ahead and seeking dues (3)/that it felt are legitimate demands. (4)/ No error (5)
4. Christian has done an excellent job (1)/ by streamlining the operations, strengthening the (2)/ leadership teams in Africa while (3)/ enhancing the image of Airtel brand across Africa.(4)/ No error. (5)
5. The Asian country of 1.2 billion people (1)/ does not allow cultivation of any genetically modified (2)/ food and has rules that are supposed to (3)/ ensure that imports contains no trace of GMOs. (4)/ No error. (5)

**Directions (6-10):** Rearrange the following sentences (A), (B), (C), (D) and (E) in the proper sequence to form a meaningful paragraph, then answer the questions given below them.

(A) Today, climate engineering efforts are viewed either as secondary measures to be undertaken alongside reducing emissions or as technologies which have not matured enough to warrant discussion by world leaders.

(B) As nations struggle to reduce emissions even further, alternative solutions using engineering innovations will increasingly gain currency.

(C) The Paris Conference last year primarily discussed plans to reduce carbon emissions, which is understandable as this is the most immediate item for action.

(D) Even if all the national commitments made in Paris are fulfilled, the effects of global warming will inevitably worsen in the near term.

(E) But other measures for dealing with global warming, in particular climate engineering, may soon acquire more importance.

(F) But the situation can change dramatically in the future.

6. Which of the following should be the "SECOND" sentence after rearrangement?  
1) B      2) E      3) F      4) A      5) C
7. Which of the following should be the "FIFTH" sentence after rearrangement?  
1) F      2) B      3) D      4) C      5) A
8. Which of the following should be the "THIRD" sentence after rearrangement?  
1) F      2) A      3) C      4) D      5) B
9. Which of the following should be the "LAST (SIXTH)" sentence after rearrangement?  
1) E      2) B      3) F      4) C      5) A
10. Which of the following should be the "FIRST" sentence after rearrangement?  
1) F      2) B      3) D      4) C      5) A

**Answers:**

1. (2); Change 'at' with 'in'
2. (1); Change 'would' with 'will'
3. (4); Change 'felt' with 'feels'
4. (3); Change 'in' with 'across'.
5. (4); Change 'contains' with 'contain'

**For questions (6-10);** The correct sequence to form meaningful paragraph is **CEAFDB**.

6. (2); E
7. (3); D
8. (2); A
9. (2); B
10. (4); C

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## GENERAL INTELLIGENCE & REASONING

**Directions (1-7):** In the following questions, select the related letters/word/number from the given alternatives.

- BYE : DAG :: GDJ : ?  
(a) ILF (b) EBH  
(c) IFL (d) EHB
- DEFH : HJLP :: BCDJ : ?  
(a) CFIS (b) DFHT  
(c) DFHU (d) DHFT
- PNLJ : IGEC :: VTRP : ?  
(a) RPOM (b) QSRC  
(c) RSTU (d) QOMK
- ABCE : BCEG :: ? : EGKM  
(a) CEGI (b) CEGK  
(c) DEGK (d) BCEI
- 16 : 36 :: 49 : ?  
(a) 64 (b) 89  
(c) 81 (d) 94
- 9 : 738 :: 7 : ?  
(a) 650 (b) 350  
(c) 750 (d) 550
- SGH : TIJ :: UKL : ?  
(a) OUR (b) VMN  
(c) ROP (d) HIM

**Directions (8 – 19) :** In each of the following questions select the one which is different select the one which is different from the other three responses.

- (a) BGNI (b) CHOJ  
(c) DIPL (d) EJQL
- (a) 20 – 36 (b) 30 – 46  
(c) 50 – 56 (d) 60 – 76
- (a) September (b) April  
(c) November (d) January
- (a) MKO (b) QSO  
(c) VTX (d) DBF
- (a) (48, 6) (b) (21, 7)  
(c) (24, 3) (d) (56, 7)
- (a) Carbon (b) Graphite  
(c) Diamond (d) Gold
- (a) 49 (b) 140  
(c) 112 (d) 97
- (a) XRMKL (b) XRMIF  
(c) XRNLJ (d) XSNLJ
- (a) Iron (b) Mercury  
(c) Silver (d) Gold
- Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

1 \_ 2 \_ 2 1 \_ 2 \_ \_ 2 1

- (a) b b a a b (b) b b a b b  
(c) a a b a b (d) a a b b a

18. 
$$\begin{array}{r} 2 \quad 4 \quad ? \\ 4 \quad 4 \quad 15 \\ \hline 6 \quad 1 \quad 10 \\ \hline 3 \quad 1 \quad 2 \end{array}$$

- (a) 5 (b) 3  
(c) 2 (d) 4

19. 
$$\begin{array}{r} 2 \quad 2 \quad 32 \\ 3 \quad 2 \quad ? \\ 4 \quad 2 \quad 256 \end{array}$$

- (a) 108 (b) 256  
(c) 72 (d) 216

20.

$$\begin{array}{l} 2 + 2 = 5 \\ 3 + 3 = 7 \\ 3 + 6 = 11 \\ 5 + 25 = ? \end{array}$$

- (a) 32 (b) 34  
(c) 35 (d) 40

21. Samira is taller than Sanjay, but shorter than Sushil. Sunil is as tall as Samira, but shorter than Sandeep, who is not as tall as Sushil. Who is the tallest ?

- (a) Sanjay (b) Sushil  
(c) Sandeep (d) Samira

22. A man walks 30 km towards South and turns left and walks 50 km. Then he walks 10 km North after that he takes a left to walk 50 km. How far is he from original place ?

- (a) 10 km (b) 20 km  
(c) 30 km (d) 0 km

23. A lady runs 12 km towards North then 6 km towards South and then 8 km East. How far is she from her starting point and in which direction?

- (a) 5 km North-East (b) 5 km East  
(c) 10 km North-East (d) 10 km East

**Directions (23-24) :** In the following questions, two statements are given followed by four conclusions I, II, III and IV. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusions, if any, follow from the given statements. Indicate your answer.

24. **Statements :**

1. All stones are men. 2. All men are tigers

**Conclusions:** I. All stones are tigers.  
 II. All tigers are stones.  
 III. All men are stones.  
 IV. Some tigers are stones.

- (a) Only conclusions II and III follow
- (b) Only conclusions I and IV follow
- (c) All conclusions follow
- (d) Conclusions I, II and IV follow

**25. Statements :**

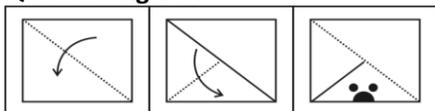
- 1. All books are pens.
- 2. Some pens are scales.

**Conclusions:** I. Some books are scales.  
 II. Some scales are books.  
 III. Some scales are pens.  
 IV. Some pens are books.

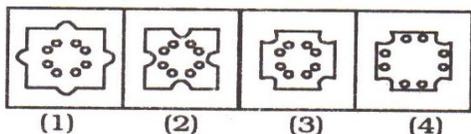
- (a) Only conclusions I and II follow
- (b) Only conclusions II and III follow
- (c) Only conclusions III and IV follow
- (d) Only conclusions I and IV follow

**Directions (26-28) :** In the following questions, a piece of paper is folded and cut as shown below in the question figures. From the given answer figures. Indicate how it will appear when opened

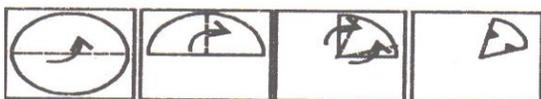
**26. Question Figure :**



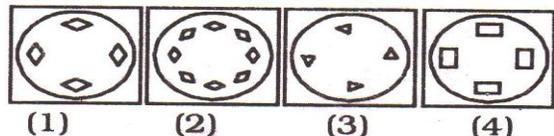
**Answer Figure :**



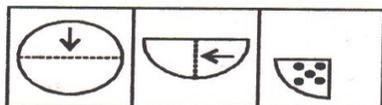
**27. Question Figure :**



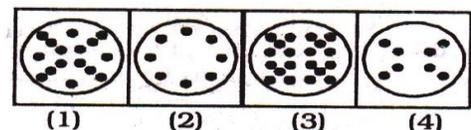
**Answer Figure :**



**28. Question Figure :**

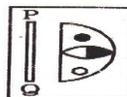


**Answer Figure :**

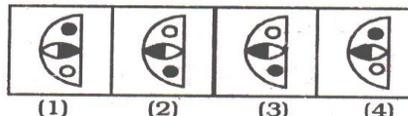


**Directions (28-29) :** In the following questions, if a mirror is placed on the line PQ, then which of the answer figures is the correct image of the given figure ?

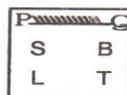
**29. Question Figure :**



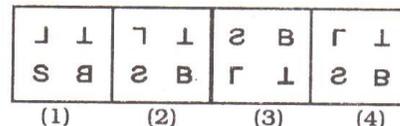
**Answer Figure :**



**30. Question Figure :**



**Answer Figure :**



**Directions (30-32) :** In the following questions, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the two matrices given below. The columns and rows of matrix I and numbered from 0 to 4 and that of Matrix II and numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'F' can be represented by 14, 21, etc. and 'P' can be represented by 68, 75, etc. Similarly, you have to identify the set for the word given in each question.

**31. DIRT**

**Matrix - I**

	0	1	2	3	4
0	D	E	F	I	N
1	I	N	D	E	F
2	E	F	I	N	D
3	N	D	E	F	I
4	F	I	N	D	E

- (a) 00, 10, 76, 86
- (c) 24, 34, 57, 66

**MATRIX - II**

	5	6	7	8	9
5	O	P	R	S	T
6	S	T	O	P	R
7	P	R	S	T	O
8	T	O	P	R	S
9	R	S	T	O	P

- (b) 43, 34, 88, 79
- (d) 00, 10, 76, 86

**32. DRIFT**

**Matrix - I**

	0	1	2	3	4
0	P	I	D	S	T
1	U	N	R	Q	M
2	D	A	E	F	G
3	B	W	V	L	N
4	C	H	J	K	I

- (a) 20, 57, 69, 23, 68
- (c) 85, 75, 96, 32, 40

**MATRIX - II**

	5	6	7	8	9
5	F	P	R	S	D
6	N	L	M	T	I
7	A	S	N	P	R
8	D	G	Z	W	O
9	N	C	K	E	S

- (b) 20, 12, 69, 32, 40
- (d) 58, 57, 96, 23, 40

**Directions (33 – 38)** A series is given with one term missing. Choose the correct alternative from the given one that will complete the series.

33. 15, 17, 20, 22, 27, 29, ?, ?

- (a) 31, 38 (b) 36, 38  
(c) 36, 43 (d) 38, 45

34. 6, ?, , 15, 27, 51, 99

- (a) 10 (b) 9  
(c) 11 (d) 12

35. 2, 5, 8, 11, 14, ?

- (a) 17 (b) 16  
(c) 15 (d) 18

36. BDF, KMO, TVX, ?

- (a) CEG (b) UVW  
(c) XYZ (d) ACE

37. ZXUQL ?

- (a) F (b) E  
(c) G (d) H

**Directions :** From the given alternative words, select the word which can be formed using the letters of the given word.

38. EXAMINATION

- (a) EXAMINE (b) NAME  
(c) MINOR (d) GAME

39. Mohini went to movies nine days ago. She goes to the movies only on Thursday. What day of the week is today?

- (a) Saturday (b) Thursday  
(c) Sunday (d) Tuesday

40. The age of a father is twice that of his son's at present age. After 5 years the sum of their ages will be 85. How old are they now ?

- (a) 40, 20 (b) 46, 23  
(c) 60, 30 (d) 50, 25

41. Ramesh drives his car 4 km to east, then takes left turn and drives 6 km. He again turns to his left hand side and travels 4 km. How many km is Ramesh away from his starting place ?

- (a) 6 km (b) 10 km  
(c) 4 km (d) 14 km

42. Ravi's father has a son Rohit who has an aunt Laxmi who has a husband Rao whose father-in-law is Mohan. What is the relation of Mohan to Ravi ?

- (a) Nephew (b) Grandfather  
(c) Son (d) Uncle

43. If you are 9<sup>th</sup> person in a queue starting from one end and 11<sup>th</sup> from another end. What is the number of persons in the queue?

- (a) 20 (b) 19  
(c) 21 (d) 18

44. If BEAUTIFUL is written as CDOGHJKMN, how LEAF can be written in that code ?

- (a) NDOK (b) KNND  
(c) ODNK (d) DKON

45. If A = 1, CAT = 24, then POLICE = ?

- (a) 57 (b) 60  
(c) 62 (d) 59

46. Five students are sitting in a row. 'T' is on the right of 'Z'. 'M' is on the left of 'Z' but is on the right of 'L'. 'T' is on the left of 'Q'. Who is sitting first from the left ?

- (a) Z (b) Q  
(c) T (d) L

47. From the given alternative words, select the word which cannot be formed using the letters of the given word :

**SUPERIORITY**

- (a) PURSE (b) PURSUIT  
(c) PRIORITY (d) PURITY

48. Shyam was facing East. He walked 5 km forward and then after turning to his right walked 3 km. Again he turned to his right and walked 4 kms. After this he turned back. Which direction was he facing at that time ?

- (a) East (b) West  
(c) North (d) South

49. Select the alternative which is related to the given set.

**Given set is : (12. 18. 24)**

- (a) (6. 12. 30) (b) (5. 15. 10)  
(c) (10. 16. 18) (d) (8. 12. 16)

50. In a solid cube which is made up of 27 small cubes, two opposite sides are painted red, two painted yellow and the other two with white. How many cubes have two colours ?

- (a) 8 (b) 12  
(c) 16 (d) 24

### QUANTITATIVE APTITUDE

51. What is the number nearest to 8000 which is completely divisible by 45?

- (a) 7965 (b) 8010  
(c) 7975 (d) 8020

52. Traffic lights at three different crossing points change light signals at the interval of 24, 48 and 72 seconds. If these three light signals are changed together at 9 : 10 : 24 hours then when will be they change again together?

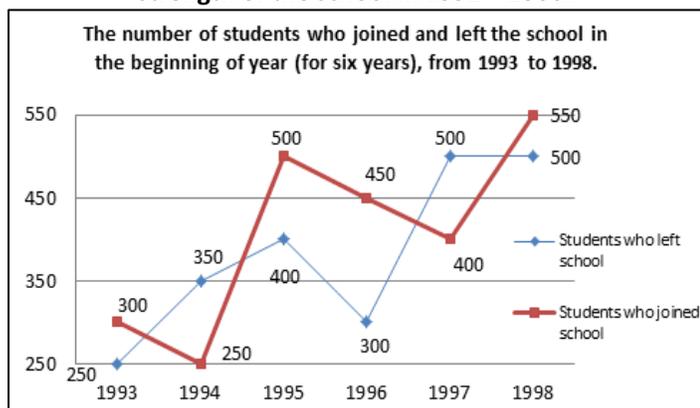
- (a) 9 : 13 : 00 (b) 9 : 12 : 48

- (c) 9 : 13 : 48                      (d) 9 : 12 : 00
53. A and B can complete a piece of work in 12 days. B and C can complete the same work in 15 days, C and A can complete that work in 20 days. If A, B and C start working together they will complete it in following days  
(a) 5 days                                  (b)  $7\frac{5}{6}$  days  
(c) 10 days                                (d)  $15\frac{2}{3}$  days
54. A and B cracked a deal to complete a work in Rs. 4,500. A alone can complete this work in 8 days, while B alone in 12 days. With the help of C they completed the project in 4 days. What is C's share?  
(a) Rs. 2250                              (b) Rs. 1500  
(c) Rs. 750                                (d) Rs. 375
55. Some men can complete a piece of work in 30 days. If 5 more men are put to work then the work will finish in 10 days less. How many men there were initially?  
(a) 10                                        (b) 15  
(c) 20                                        (d) 25
56. A pipe of diameter  $d$  can empty a tank in 40 min then how much time a pipe of diameter  $2d$  will take to empty it?  
(a) 5 min                                  (b) 10 min  
(c) 20 min                                (d) 80 min
57. Rs. 1050 were distributed among 1500 men and women in such a way that each man got Re. 1 and each woman got 50 paise. What was the number of women?  
(a) Rs. 600                                (b) Rs. 750  
(c) Rs. 800                                (d) Rs. 900
58. The ratio of the speed between a car, a train and a tractor is 3 : 6 : 1 respectively. The average speed of the train is 6 times the average speed of the tractor which covers 175 km in 7 hours. What is the sum of the speed of the car and the train?  
(a) 225 km/h                              (b) 215 km/h  
(c) 250 km/h                              (d) Cannot be determined
59. A bike covers a certain distance in 8 hours at a speed of 64 km/h. If this distance has to be covered in 6 hours then what should be the speed of the bike approximately?  
(a) 80 km/h                                (b) 85 km/h  
(c) 90 km/h                                (d) 75 km/h
60. A car completes a journey in 10 hours. If it covers half the journey at 40 km/h and rest of the journey at 60 km/h. What will be the distance of the journey?  
(a) 400 km                                (b) 480 km  
(c) 380 km                                (d) 300 km
61. A man can row against the current three fourth of a kilometer in 15 minutes and returns the same distance in 10 minutes. The ratio of his speed to that of current is  
(a) 3 : 5                                      (b) 5 : 3
- (c) 1 : 5                                      (d) 5 : 1
62. Rajeev's income is three fifth of the income of Reena. The monthly income of Reena is Rs. 32,000. What is the average monthly income of Rajeev and Reena?  
(a) Rs. 25,600                              (b) Rs. 26,500  
(c) Rs. 24,500                              (d) Rs. 22,500
63. The average marks of Rahul, Manish and Suresh is 63. Rahul's marks is 15 less than that of Ajay and 10 more than that of Manish. If Ajay has got 30 marks more than that of the average of Rahul, Manish and Suresh then what is the sum of the marks of Manish and Suresh?  
(a) 120                                        (b) 111  
(c) 117                                        (d) Cannot be determined
64. Six persons went to a hotel to take lunch. Five among them spend Rs. 32 each on their food while the 6<sup>th</sup> person spends Rs. 80 more than that of the average expense of 6 persons. How much they spent all together?  
(a) Rs. 192                                (b) Rs. 240  
(c) Rs. 288                                (d) Rs. 336
65. If  $\sqrt{32} + \sqrt{72} = 14.14$  then  $\sqrt{18} + \sqrt{50} + \sqrt{98} + \sqrt{1250} = ?$   
(a) 45.45                                    (b) 56.56  
(c) 67.67                                    (d) 78.78
66. A shopkeeper mixes two types of rice in the ratio of 3 : 2. The cost price of the first is Rs. 35 per kg and of the second is Rs. 45 per kg. He sells this mixture at Rs. 41.60 per kg. What is his percentage profit or loss?  
(a)  $6\frac{2}{3}\%$                                     (b)  $6\frac{1}{4}\%$   
(c) 12.5%                                    (d) 10%
67. 4 litres of water is mixed in certain amount of pure milk whose cost is Rs. 3 per litre. If the dishonest milkman earns a profit of 20% by selling the mixture at initial price then what is the quantity of pure milk obtained by the customer?  
(a) 24                                        (b) 20  
(c) 18                                        (d) 25
68. Two numbers are in the ratio of 17 : 45. One third of the smaller number is 15 less than  $\frac{1}{5}$  of the bigger number. The smaller number is  
(a)  $25\frac{1}{2}$                                         (b)  $67\frac{1}{2}$   
(c)  $76\frac{1}{2}$                                         (d)  $86\frac{1}{2}$
69. The ratio of my income in two consecutive years is 2 : 3 and that of expenditure is 5 : 9. If my income in second year is Rs. 45,000 and my expenditure in first year is Rs. 25,000 then my total saving in two years together is  
(a) Nothing                                (b) Rs. 15,000  
(c) Rs. 10,000                              (d) Rs. 5,000

70. A sells an article to B at 15% profit. B sells it to C at 10% loss. If C pays Rs. 517.50 for it then A purchased it for  
 (a) Rs. 500 (b) Rs. 750  
 (c) Rs. 1000 (d) Rs. 1250
71. An article is sold at a certain fixed price. By selling it at  $\frac{2}{3}$  of that price, one loses 10%. The gain percent of selling it at the original price is  
 (a) 20 (b)  $33\frac{1}{3}$   
 (c) 35 (d) 40
72. What total amount would Mithilesh get at the end of three years if he invests an amount of Rs. 11,200 in a scheme which offers simple interest @ 8.5 p.c.p.a. for three years?  
 (a) Rs. 14,056 (b) Rs. 14,348  
 (c) Rs. 13,852 (d) Rs. 15,064
73. Population of a city increases by 2.5% per year but due to migration it decreases 0.5% per year. What will be the percentage of increase in 2 years?  
 (a) 5 (b) 4.04  
 (c) 4 (d) 3.96
74. 72 % of the students of a certain class took Biology and 44% took Mathematics. If each students took at least one of Biology or Mathematics and 40 students took both of these subjects, the total number of the student in the class is  
 (a) 200 (b) 240  
 (c) 250 (d) 320
75. If 50 litres sample of glycerin there is 20% of impurity. How much pure glycerin should be mix in it to make the impurity 5%?  
 (a) 155 litre (b) 150 litre  
 (c) 150.4 litre (d) 149 litre

**Directions (26-28):** Study the following graph carefully and answer the questions given below it.

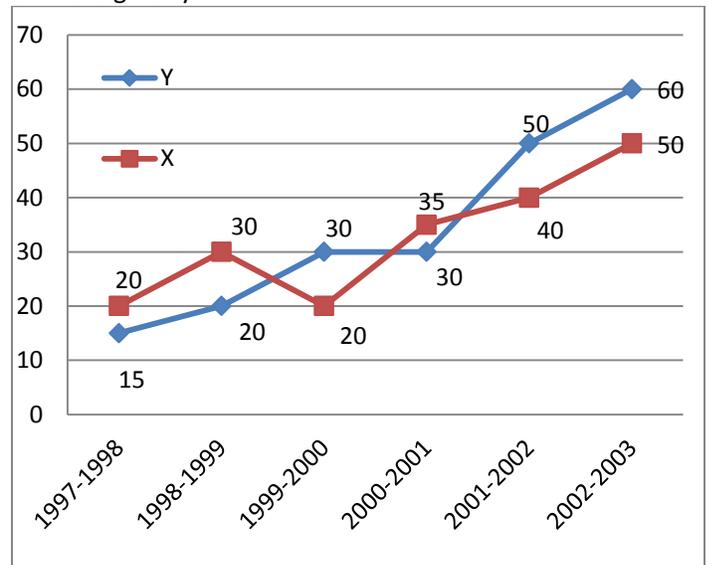
**The number of students who joined and left the school in the beginning of year for six years, from 1993 to 1998. Initial strength of the school in 1992 = 1500.**



**Strength of student 1992 = 1500**

76. What was the increase/decrease in strength of the school from 1994 to 1995?  
 (a) Increase by 100 (b) Decrease by 100  
 (c) Increase by 200 (d) Decrease by 200
77. For which of the following years, the percentage rise/fall in capacity of the school from the previous year is the highest?  
 (a) 1994 (b) 1995  
 (c) 1996 (d) 1997
78. During which of the following pairs of years, the strengths of the school is equal?  
 (a) 1994, 1995 (b) 1995, 1997  
 (c) 1996, 1998 (d) 1993, 1995

**Directions (29-32):** Study the following graph to answer the given questions. Percent profit earned by two companies over the given years.



$$\% \text{ profit} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$

79. If the income of company X in 1998-99 was equal to the expenditure of company Y in 2001-2002, what was the ratio of their respective profits?  
 (a) 13 : 15 (b) 6 : 13  
 (c) 13 : 26 (d) Cannot be determined
80. For company X, its income in 2001-2002 was equal to its expenditure in 2002-2003, what was the ratio of their respective income in these two years?  
 (a) 4 : 5 (b) 3 : 4  
 (c) 2 : 3 (d) Cannot be determined
81. For company Y, in which year is the per cent of increase in per cent profit over that of previous year the highest?  
 (a) 2002-03 (b) 1999-2000  
 (c) 2001-2002 (d) 1998-99
82. In 1997-98, the expenditure of company X was Rs. 40 crores. What was its income in that year?  
 (a) Rs. 50 crores (b) Rs. 64 crores

- (c) Rs. 48 crores (d) Cannot be determined
83. If  $\sin A - \sqrt{6} \cos A = \sqrt{7} \cos A$ , then the value of  $\cos A + \sqrt{6} \sin A$  is  
 (a)  $\sqrt{6} \sin A$  (b)  $-\sqrt{7} \sin A$   
 (c)  $\sqrt{6} \cos A$  (d)  $\sqrt{7} \cos A$
84. If  $\cos x + \cos^2 x = 1$  then the value of  $\sin^{12} x + 3 \sin^{10} x + 3 \sin^8 x + \sin^6 x - 1$  is  
 (a) 2 (b) 1  
 (c) -1 (d) 0
85. On simplification  $(\sec A - \cos A)^2 + (\operatorname{cosec} A - \sin A)^2 - (\cot A - \tan A)^2$  yields  
 (a) 0 (b)  $\frac{1}{2}$   
 (c) 1 (d)  $\frac{11}{\sqrt{2}}$
86.  $(\sec x \cdot \sec y + \tan x \cdot \tan y)^2 - (\sec x \cdot \tan y \tan x \cdot \sec y)^2$  in its simplest form, is  
 (a) -1 (b) 0  
 (c)  $\sec^2 x$  (d) 1
87. If  $\frac{\cos^2 \theta}{\cot^2 \theta - \cos^2 \theta} = 3$  and  $0^\circ < \theta < 90^\circ$  then the value of  $\theta$  is  
 (a)  $30^\circ$  (b)  $45^\circ$   
 (c)  $60^\circ$  (d) None of these
88. The angles of elevation of a bird flying in a horizontal straight line from a point at four successive observation are  $\alpha, \beta, \gamma$  and  $\delta$ , the observation being taking at equal time interval. If the speed of the bird is uniform, value of  $\frac{\cot^2 \alpha - \cot^2 \delta}{\cot^2 \beta - \cot^2 \gamma}$  is  
 (a) 3 (b) 1  
 (c)  $\frac{1}{3}$  (d)  $\sqrt{3}$
89. In the two regular polygon number of sides are in the ratio 5 : 4. If difference between their internal angles is  $6^\circ$ , then number of sides in the polygon is  
 (a) 15, 12 (b) 5, 4  
 (c) 10, 8 (d) 20, 16
90. In triangle  $\Delta ABC$ , points E and F lie on sides AB and AC such that  $EF \parallel BC$ . if  $EF : BC = 3 : 7$  then what is the ratio of areas of  $\Delta AEF$  and trapezium EBCF?  
 (a) 9 : 49 (b) 9 : 58  
 (c) 40 : 49 (d) 9 : 40
91. Line PQ meets triangle ABC such that P lies on AB and Q lies on AC. If  $AP = 1$  cm,  $PB = 3$  cm,  $AQ = 1.5$  cm and  $QC = 4.5$  cm, then what is the ratio of area  $\Delta APQ$  and quadrilateral PBCQ ?  
 (a) 1 : 16 (b) 1 : 15  
 (c) 1 : 9 (d) 1 : 8
92. The semi perimeter of a triangle is S and its centroid is G. What is the distance between G and centroid of the triangle formed by mid points of the sides of the given triangle?  
 (a)  $\frac{5}{3}$  (b)  $\frac{5}{6}$   
 (c)  $\frac{5}{18}$  (d) 0
93. If lines are drawn from the point  $(-5, 3)$  to the coordinate axes then area of quadrilateral formed by these lines with coordinate axes is  
 (a)  $\frac{15}{2}$  (b) 15  
 (c) 30 (d)  $\frac{25}{2}$
94. If  $b > a, d > c$  then area of quadrilateral formed by straight line  $x = a, x = b, y = c$  and  $y = d$  is  
 (a)  $(b - a)(d - c)$  (b)  $\frac{1}{2}(b - a)(d - c)$   
 (c)  $(b + a)(d + c)$  (d)  $\frac{1}{2}(b + a)(d + c)$
95. If  $x + \frac{a}{x} = 1$  then the value of  $\frac{x^3 - x^2}{x^2 + x + a}$  in terms of a is  
 (a)  $\frac{a}{2}$  (b)  $-\frac{a}{2}$   
 (c)  $2a$  (d) a
96. If  $a = \frac{xy}{x+y}, b = \frac{xz}{x+z}$  and  $c = \frac{yz}{y+z}$  where  $a, b, c$  are non zero then x is  
 (a)  $\frac{2abc}{ac+bc-ab}$  (b)  $\frac{2abc}{ab-ac+bc}$   
 (c)  $\frac{2abc}{ab+bc+ac}$  (d)  $\frac{2abc}{ab+ac-bc}$
97. HCF and LCM of two algebraic expressions are respectively  $(a + 1)$  and  $(a^3 + a^2 - a - 1)$ . If one of the expression is  $a^2 - 1$ , then what is the second expression?  
 (a)  $(a + 1)$  (b)  $(a - 1)^2$   
 (c)  $(a + 1)^2$  (d)  $(a + 1)(a - 1)$
98. Suppose  $p, q, r$  are such that  $p + q = r$  and  $pqr = 30$ , then what is the value of  $p^3 + q^3 - r^3$ ?  
 (a) 0 (b) 90 (c) -90  
 (d) Cannot be determined with given data
99. The circumference of a  $1925 \text{ cm}^2$  semicircle is equal to the width of a rectangle. If length of the rectangle is equal to the perimeter of a square of side 48 cm then perimeter of the rectangle is  
 (a) 734 cm (b) 754 cm  
 (c) 744 cm (d) Cannot be determined
100. The area of a square is three times area of a given rectangle. The length of rectangle is 5 cm more than  $5^2$  which is thrice its width. Perimeter of the square is  
 (a) 240 cm (b) 60 cm  
 (c) 120 cm (d) Cannot be determined

## GENERAL AWARENESS

101. An economy is at the take off stage on its path to development when it  
 a) Becomes stagnant      b) Begins steady growth  
 c) Is liberalized      d) Gets maximum foreign aid
102. Which of the following is the basic characteristic of Oligopoly?  
 a) A few sellers, one buyer  
 b) A few sellers, many buyers  
 c) A few sellers, a few buyers  
 d) Many sellers, a few buyers
103. Which of the following plans aimed at improving the standard of living?  
 a) Third Plan      b) Fourth Plan  
 c) Fifth Plan      d) Sixth Plan
104. At which of the following places was the mining of coal started in 1774?  
 a) Chhindwara-      b) Dhanbad  
 c) Ranchi      d) Raniganj
105. When, for the first time, did the Prime Minister of India announce the 20-point Economic Programme?  
 a) 1973      b) 1974  
 c) 1975      d) 1976
106. Which Indian state has the largest number of cotton textile mills?  
 a) Madhya Pradesh      b) Maharashtra  
 c) Gujarat      d) West Bengal
107. Which one of the following statements is correct? The Chief Election Commissioner can be removed from office before expiry of his term:-  
 a) In like manner and like ground as a member of the Union Public Service Commission  
 b) In like manner and like ground as a Judge of the Supreme Court  
 c) On the recommendations of the Supreme Court  
 d) On the recommendations of the Cabinet
108. Which one of the following set of criteria was employed by the Second Backward Class Commission, popularly known as the Mandal Commission, to determine socially and educationally backward classes in India?  
 a) Social, economic, political and educational  
 b) Social, economic and educational  
 c) Social and economic  
 d) Social, economic and cultural
109. Rousseau was an advocate of  
 a) Individual sovereignty      b) Popular sovereignty  
 c) Political sovereignty      d) Legal sovereignty
100. Which one of the following thoughts lays stress on rights of recognition and belonging?  
 a) Neo-liberalism      b) Conservatism  
 c) Communitarianism      d) Democratic socialism
111. Which one of the following principles is denoted by the Dicey's rule of law?  
 a) Equality before law and rule by law  
 b) Rule by law and law alone and due process of law  
 c) Equality before law and administrative law.  
 d) Rule by law; equality before law and due process of law
112. Number of Indian Prime Ministers have died while in office?  
 a) 1      b) 2  
 c) 3      d) 4
113. Name the schedule to the Constitution of India carries the form of oath or affirmation for the Prime Minister of India?  
 a) Second      b) Third  
 c) Fourth      d) Fifth
114. Which of the following is the official residence of the Prime Minister of U.K.?  
 a) 10 Downing Street      b) 12 Downing Street  
 c) 7 Downing Street      d) 11 Downing Street
115. During whose Viceroyalty was the 'Repressive Act' also known as the 'Gagging Act' enacted?  
 a) Lord Curzon      b) Lord Lytton  
 c) Lord Ripon      d) Lord Morley
116. Who among the following women is nine time Wimbledon Champion of Women's Singles Match in Tennis is -  
 a) Mary Joe Fernandez      b) Jana Novotna  
 c) Iva Majoli      d) Martina Navrotilova
117. In which following states manufacturing of sports goods is an important industry  
 a) Punjab      b) Andhra Pradesh  
 c) Karnataka      d) Uttar Pradesh
118. A Groupware is a  
 a) Hardware      b) Software  
 c) Network      d) Firmware
119. The first computer made available for commercial use was  
 a) MANIAC      b) ENIAC  
 c) UNIVAC      d) EDSAC

120. Gyan Prasarak Mandali, an organization started by which of the following leader –  
 a) G K Gokhale                      b) M M Malviya  
 c) Dadabhai Naoroji              d) Lokmanya Tilak
121. "Hitavada" the newspaper started by Gopal Krishna Gokhale in 1911 was initially published from –  
 a) Mumbai                              b) Pune  
 c) Sholapur                              d) Nagpur
122. Mathura school of art flourished during the reign of  
 a) Kanishka                              b) Kadphises  
 c) Vasudeva                              d) Kushanas
123. Style of folk paintings, 'Madhubani' is popular in which of the following states in India?  
 a) Bihar                                      b) Madhya Pradesh  
 c) West Bengal                              d) Rajasthan
124. Dalhousie say that it was a "cherry that will drop into our mouth one day" About which kingdom?  
 a) Oudh                                      b) Jhansi  
 c) Mysore                                      d) Atiala
125. Which of the following writer inspires Gandhiji for civil disobedience movement?  
 a) Henry David Thoreau              b) David Ricardo  
 c) Leo Tolstoy                              d) Bertrand Russell
126. Which Literature which deal with the stories of the various births of Buddha are  
 a) Venaya pitakas                      b) Sutta pitakas  
 c) Abhidhamma pitakas              d) Jatakas
127. The Arjuna Awards were started in the year  
 a) 1963                                      b) 1965  
 c) 1961                                      d) 1957
128. Micro-organisms belongs to the group of-  
 a) Decomposers                              b) Producers  
 c) None of the above                      d) Consumers
129. Function of an ecosystem involves-  
 a) Energy flow and nutrient movement  
 b) Energy flow only.                      c) None of the above.  
 d) Nutrient flow only
130. Ozone depletion has resulted in-  
 a) Less UV radiations on earth  
 b) Warming of earth  
 c) More UV radiations on earth  
 d) Decrease in temperature
131. The Paithan (Jayakwadi) Hydro-electric project is on the river  
 a) Ganga                                      b) Cauvery  
 c) Narmada                                      d) Godavari
132. The percentage of irrigated land in India is about  
 a) 45%                                      b) 65%
- c) 35%                                      d) 25%
133. The southernmost point of peninsular India, that is, Kanyakumari, is  
 a) North of Tropic of Cancer  
 b) South of the Equator  
 c) South of the Capricorn              d) North of the Equator
134. The pass located at the southern end of the Nilgiri Hills in south India is called  
 a) The Palghat gap                      b) The Bhorghat pass  
 c) The Thalghat pass                      d) The Bolan Pass
135. In the film 'The Bandit Queen' the lead character has been played by  
 a) Rupa Ganguly                              b) Seema Biswas  
 c) Pratiba Sinha                              d) Shabana Azmi
136. Insects belong to  
 a) Coelenterate                              b) Crustaceans  
 c) Arthropoda                              d) Annelida
137. Which insect gives birth to only sixteen eggs alone?  
 a) Cockroach                              b) Butterfly  
 c) Bee    d) None of the above
138. What is 'oviparous' animal?  
 a) It is an egg-laying mammal  
 b) This animal eats only ants  
 c) This animal is a mammal having no teeth  
 d) None of the above
139. Where can you see the most deadly poisonous amphibian?  
 a) South America                              b) South Africa  
 c) Forests in China                              d) Forest in Eastern Ghats
140. Agar-Agar is obtained from  
 a) Gelidium                                      b) Polysiphonia  
 c) Fucus    d) Laminaria
141. Iodine is obtained from  
 a) Ulothrix                                      b) Ectocarpus  
 c) Laminaria                                      d) Oedogonium
142. Which of the following is the amphibian of the plant kingdom?  
 a) Pteridophytes                              b) Bryophytes  
 c) Gymnosperms                              d) Angiosperms
143. A freely falling body has a constant acceleration of 9.8 m/s Square. This means that:  
 a) The body falls 9.8 m during each second  
 b) The body falls 9.8 m during the first second only  
 c) The speed of the body increases by 9.8 m/s during each second  
 d) The acceleration of the body increases by 9.8 m/s<sup>2</sup> during each second
144. Which metal was used by Rutherford in his alpha-scattering experiment?

- a) Gold                                      b) Platinum  
c) Silver                                      d) Lead
145. At the time of chemical reaction, atomic number  
a) It changes                                      b) It remains same  
c) It changes and then is restored  
d) It changes alternately
146. Who of the following was awarded the Nobel Prize for his measurement of elementary electronic charge?  
a) Rutherford                                      b) Robert Millikan  
c) James Chadwick                                      d) JJ Thomson
147. Admiral Gorshkov, the Soviet aircraft carrier imported by India is now named -  
a) INS Vikrant                                      b) INS Vikramaditya  
c) INS Virat                                      d) INS Vishaal
148. Hollow metal ball carrying an electric charge produces no electric field at points:  
a) Outside the sphere                                      b) On its surface  
c) Inside the sphere                                      d) Only at the centre
149. If a heater coil is cut into two equal parts and only one part is used in the heater, the heat generated will be:  
a) Doubled                                      b) Four times  
c) One-fourth                                      d) Halved
150. Material used for electric fuse is an alloy of tin and lead. This alloy should have  
a) High specific resistance and low melting point  
b) Low specific resistance and high melting point  
c) Low specific resistance and low melting point  
d) High specific resistance and high melting point

### ENGLISH LANGUAGE

**Directions (151-155):** 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**.

151. This article tells you how to deal with motion sickness and what to do on those days when you are **at sea**.  
(a) Going for sail                                      (b) You are at a beach  
(c) Weak                                      (d) At home
152. Here a **high and dry** location, coupled with little light pollution, makes for unsurpassed viewing.  
(a) Isolated                                      (b) Populated  
(c) Over Crowded                                      (d) Not available
153. If we all had the benefit of your insight into the realities then neither side would be able to **pull the wool over** as they do now.  
(a) Protect                                      (b) Release  
(c) Support                                      (d) Deceive
154. Being **cast down** with social anxiety disorder is not the end of your life.  
(a) Happy                                      (b) Excited  
(c) Depressed                                      (a) Cynical
155. Waugh takes the recent comparison with his twin **with a grain of salt**.  
(a) Surprisingly                                      (b) With some reservation  
(c) Cordially                                      (d) Angrily

**Directions (156-158):** In these questions, out of the four alternatives, choose the one which best expresses the **meaning** of the word given in **bold**.

156. **Impertinent**  
(a) Precocious                                      (b) Respectful  
(c) Refined                                      (d) Honest
157. **Insouciant**

- (a) Anxious                                      (b) brave  
(c) Casual                                      (d) Collected
158. **Obdurate**  
(a) Compliant                                      (b) Yielding  
(c) Amenable                                      (d) Cussed
- Directions (159-161):** In these questions, choose the word **opposite** in meaning to the word given in **bold**.
159. **Jocund**  
(a) Sad                                      (b) Mirthful  
(c) Blithe                                      (d) Jocose
160. **Reign**  
(a) Prevail                                      (b) Subservience  
(c) Sup abound                                      (d) Influence
161. **Queasy**  
(a) Loathe                                      (b) Vile  
(c) Vomitus                                      (d) Reassuring

**Directions (162-168):** In the following questions, out of the four alternatives choose the one which can be substituted for the given words/sentence.

162. Blessing from a priest  
(a) Prayer                                      (b) Wellness  
(c) Benediction                                      (d) Superstition
163. One who holds that nothing is or can be known of the existence of god  
(a) Doctrinal                                      (b) Autocracy  
(c) Agnostic                                      (d) Theistic
164. Socially unconventional, a man of free and easy habits  
(a) Bohemian                                      (b) Romani  
(c) Gypsy                                      (d) Traveller
165. A person who fails in the performance of his duty or commits an offense  
(a) Overdue                                      (b) Remiss

- (c) Negligent (d) Delinquent  
**166.** Not refined and fluent but full of jerky movements  
 (a) Erratic (b) Unpredictable  
 (c) Whimsical (d) Dubious

- 167.** A reasoner willing to avail himself of fallacies that will help his case  
 (a) Apologist (b) Sophist  
 (c) Pleader (d) Crook  
**168.** One who eats too much  
 (a) Wolverine (b) Gastronomer  
 (c) Glutton (d) Overeater

**Directions (169-170):** In these questions, four words are given out of which only one is **correctly spelt**. Find that **correctly spelt** word.

- 169.** (a) Obliette (b) Oubliete  
 (c) Obleitte (d) Oubliette  
**170.** (a) Veternary (b) Veterenary  
 (c) Veterinary (d) Veterinary

**Directions: (171-175):** 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.

- 171.** He wanted to punish me, \_\_\_\_\_?  
 (a) Won't he (b) Did he  
 (c) Is he (d) Didn't he  
**172.** He \_\_\_\_\_ finish the work the yesterday.  
 (a) Do (b) Will  
 (c) Did (d) May  
**173.** The train comes \_\_\_\_\_ 9'0 clock.  
 (a) On (b) At  
 (c) In (d) When  
**174.** He is blind \_\_\_\_\_ one eye.  
 (a) Of (b) To  
 (c) With (d) For  
**175.** Her school is adjacent \_\_\_\_\_ mine  
 (a) With (b) of  
 (c) To (d) from

**Directions: (176-180):** 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.)

- 176.** Mother advised to her child not to ride the bicycle on the road.  
 (a) Mother advised to (b) her child not to  
 (c) ride the bicycle on the road  
 (d) No Error  
**177.** In the final results, she stand first in the class.  
 (a) In the final results (b) she stand first  
 (c) in the class (d) No Error  
**178.** I cannot do no work with her.

- (a) I cannot (b) do no work  
 (c) with her (d) No Error  
**179.** If I was a Prime Minister, I would make chocolates tax free.  
 (a) If I was a Prime Minister  
 (b) I would make  
 (c) chocolates tax free  
 (d) No Error  
**180.** After the scolding yesterday he dare not to come here.  
 (a) After the scolding (b) yesterday he dare  
 (c) not to come here (d) No Error

**Directions: (181-190):** 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)..

- 181.** Please don't park your vehicle at the front of the gate.  
 (a) On front of (b) In front of  
 (c) Front of (d) No Improvement  
**182.** My grandmother tell me a story  
 (a) Told (b) Told to  
 (c) Tell to (d) No improvement  
**183.** The girls was watching a movie.  
 (a) Will (b) Were  
 (c) Has (d) No Improvement  
**184.** She is known to work hard.  
 (a) Has known to (b) Was know to  
 (c) Will know to (d) No Improvement  
**185.** I did not trust nobody.  
 (a) I did trust nobody  
 (b) I did not trust anybody  
 (c) I not trust anybody (d) No Improvement  
**186.** We have to be paid the taxes by the end of March.  
 (a) Had to be pay (b) Has to be pay  
 (c) Have to pay (d) No Improvement  
**187.** I was so much busy to attend the party the other night.  
 (a) Was too busy (b) Were so busy  
 (c) Was so busy (d) No Improvement  
**188.** Mother prayed that God will give me prosperity.  
 (a) Might (b) Could  
 (c) Should (d) No Improvement  
**189.** I will punish you if you do not obey my orders.  
 (a) Shall (b) Might  
 (c) May (d) No Improvement  
**190.** It has been two years that my grandmother died  
 (a) Is two years that (b) Is two years since  
 (c) Has been two years hence  
 (d) No Improvement

**Directions (191-195):** In the following questions, you have four brief passages with 5 questions following each passage.

Read the passages carefully and choose the best answer to each question out of the four alternatives.

Have you noticed that sometimes the moon looks like a tiny sliver of light in the night sky? Other times it is a big, brilliant circle. The moon has many different looks during the month. Each look is called a lunar phase. Lunar means “of the moon.” The moon has phases because it orbits Earth. The Earth revolves around the sun. The moon revolves separately around Earth. The moon itself does not actually change size. It appears to change size because different parts of it are in the shadow.

In the new moon phase, none of the part of the moon that is facing Earth is lit by the sun. It appears as only a dark outline. During the waxing crescent phase, the moon looks small. Only a tiny sliver of the moon’s side that is facing Earth is lit by the sun. The next phase is the first quarter phase. In it, half of the moon’s nearest side is lit by the sun. We see it as about one-fourth of a full moon.

During the waxing gibbous phase, more of the moon is lit. Even so, it is not quite a full moon yet. In the full moon phase, all of the side of the moon that is facing Earth is lit by the sun. It appears as a large, bright circle. During the waning gibbous phase, some of the part that was lit as a full moon begins to fall into the shadows. In the last quarter phase, a different side of the moon is lit. Again, the moon appears as one-fourth full. During the waning crescent phase, the moon slips further into shadows. It is a thin crescent shape once more. After this phase, the entire lunar cycle begins again with a new moon.

- 191.** What is meant by a “phase” of the moon?  
 (a) The tiny silver light  
 (b) Different looks  
 (c) Different sides of the moon  
 (d) Different seasons on the moon
- 192.** Why does the moon appear to be different sizes?  
 (a) Because it rotates the sun  
 (b) Because it revolves the sun  
 (c) Because it orbits the earth  
 (d) Because it is dark
- 193.** What are the two phases during which the moon appears almost full, but not quite?  
 (a) Full moon and new moon  
 (b) waxing gibbous phase  
 (c) waning gibbous phase  
 (d) both waning gibbous phase and waxing gibbous phase
- 194.** What are the two phases during which the moon appears as only a tiny sliver?  
 (a) New moon  
 (b) waxing crescent phase

- (c) waning crescent phase  
 (d) Both B and C

- 195.** The entire lunar cycle begins again with  
 (a) Full moon (b) New moon  
 (c) Crescent phase (d) Gibbous phase

**Directions (196-200):** In the following questions, you have four brief passages with 5 questions following each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives.

Natural resources are things that we use that come from Earth. Our natural resources are limited. This means that they will not last forever. Some are renewable, like when you plant a new tree when you cut one down.

Others are not renewable, like when you dig coal out of the ground. Once it is used, it is gone. People are aware of the fact that Earth’s natural resources are limited, and can do things to help conserve those resources. When you try to conserve a natural resource, you try to use less of it so it does not get used up so fast. One way that people conserve fuel, like gasoline, is by riding a bicycle or walking when the distance is short instead of driving everywhere.

Water is a very important natural resource because we all need it to stay alive. We can conserve water by making sure that our pipes and faucets do not leak. We can also conserve water by making smart choices, like only using the dishwasher or washing machine when they are full.

- 196.** Where do we find natural resources?  
 (a) Space (b) Universe  
 (c) Earth (d) Atmosphere
- 197.** Which of the following are not a renewable resource?  
 (a) Coal (b) Water  
 (c) Trees (d) Oxygen
- 198.** Which of the following is not a way to conserve gasoline?  
 (a) Driving short distance (b) Walking  
 (c) Bicycling (d) Car pooling
- 199.** Which of the following is a way to conserve water?  
 (a) Using dishwasher always  
 (b) Using washing machine always  
 (c) let pipes and faucets leak  
 (d) Using appliances only when used in their full capacity.
- 200.** We should conserve natural resources because  
 (a) They are rarely available  
 (b) They are expensive  
 (c) They cause pollution  
 (d) They are exhaustible.

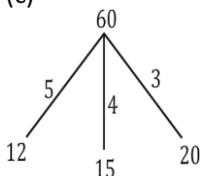
## ANSWER KEY

Qns.	Ans.								
101	b	121	d	141	c	161	d	181	b
102	b	122	d	142	b	162	c	182	a
103	b	123	a	143	c	163	c	183	b
104	d	124	a	144	a	164	a	184	d
105	c	125	a	145	b	165	d	185	b
106	b	126	d	146	b	166	a	186	c
107	b	127	c	147	b	167	b	187	a
108	d	128	a	148	c	168	c	188	a
109	b	129	a	149	a	169	d	189	d
110	c	130	c	150	a	170	c	190	b
111	d	131	d	151	c	171	d	191	b
112	c	132	c	152	a	172	c	192	c
113	b	133	d	153	d	173	b	193	d
114	a	134	a	154	c	174	a	194	d
115	b	135	b	155	b	175	c	195	b
116	d	136	c	156	a	176	a	196	c
117	a	137	a	157	c	177	b	197	a
118	b	138	a	158	d	178	b	198	a
119	c	139	a	159	a	179	a	199	d
120	c	140	a	160	b	180	c	200	d

## HINTS

01. (C) +2 adding up  
 02. (B)  
 03. (D)  
 04. (B) BCE repeated E+2=G, so EGK repeated and K+2=M  
 05. (C)  $16=4^2, (4+2)^2=6^2$   
 06. (B)  $9^3+9, 7^3+7$   
 07. (B) +1,+2,+2 sequence  
 08. (C) +5,+7,-5 pattern  
 09. (c) difference=16  
 10. (c) months of 30 days  
 11. (b) -2 and +4 gap pattern  
 12. (b) 48/6, 21/7, 56/7 =8 pattern.  
 13. (d) Gold is allotrope of carbon.  
 14. (a) 49 is perfect square.  
 15. (b) mercury is in liquid form in free state.  
 16. (b)  
 17. (B) 122221/122221  
 18. (B)  $(2/4)*6=3, (4/4)*1=1, (x/15)*10=2$  so  $x=3$   
 19. (a)  $2^3*2^2, 3^3*2^2, 4^3*2^2$   
 20. (C)  $2+2+(2/2)=5, 5+25+(25/5)=35$   
 21. (B) Sushil>sandeep>samira=sunil>sanjay  
 22. (B)  
 23. (C)  
 24. (B)  
 25. (C)  
 26. (a)  
 27. (b)  
 28. (c)  
 29. (d)  
 30. (d)  
 31. (c)  
 32. (a)  
 33. (b) +5,+7,+9 as alternate addition  
 34. (B) +3,+6,+12,+24,+48  
 35. (a) +3 adding up the series  
 36. (a) +9 adding up in the series  
 37. (a) -2,-3,-4,-5,-6 series  
 38. (B)  
 39. (A)  
 40. (d)  
 41. (a)  
 42. (B)  
 43. (B)  
 44. (a)

45. (B)  
 46. (d)  
 47. (b)  
 48. (a)  
 49. (d) ( $x^2, x^3, x^4$ )  
 50. (a)  
 51. (b)  $8000 = 177 \times 45 + 35$ , In this sequence 10 adding, the fetched no. will be divisible by 45. We can get the nearest no. by adding 10.  
 52. (b) The LCM 24, 48, 72 sec. = 148 sec. = 2 min 24 sec.  
 53. (c)



$$\Rightarrow A + B + C = 6 \Rightarrow \text{Time} = \frac{60}{6} = 10 \text{ days}$$

54. (c) 1 day's work of C =  $\frac{1}{4} - \frac{1}{8} - \frac{1}{12} = \frac{1}{24}$   
 Efficiency of A, B & C =  $\frac{1}{8} : \frac{1}{12} : \frac{1}{24} = 3 : 2 : 1$   
 C's share =  $\frac{1}{3+2+1} \times 4500 = 750/-$   
 55. (a)  $30.x = (x + 5)(30 - 10)$   
 $x = 10$   
 56. (b) Area =  $\pi.r^2 = \pi\left(\frac{d}{2}\right)^2$   
 So, after doubling the diameter the cross section area is increased 4 times.  
 So, empty the tank, it will take  $\frac{40}{4} = 10$  min  
 57. (d);  $(1500 - x) \times 1 + x \times \frac{1}{2} = 1050$   
 $x = 900$   
 58. (a) Speed of tractor =  $\frac{175}{7} = 25$  km/h.  
 So, sum of the speed of the car and train =  $\frac{3+6}{10} \times 250 = 225$  km/h.  
 59. (b) Req. Speed  $\times 6 = 64 \times 8$   
 Req. Speed =  $85\frac{1}{3}$  km/h  $\approx 85$  km/h. approx  
 60. (b)  $\frac{x}{2 \times 40} + \frac{x}{2 \times 60} = 10 \Rightarrow x = 480$  km  
 61. (d);  $\frac{750}{(x-y)} = 15$  and  $\frac{750}{x+y} = 10$   
 $x : y = 5 : 1$   
 62. (a) Income of Rajeev =  $\frac{32,000 \times 3}{5} = 19200$   
 Req. Avg. =  $\frac{32000+19200}{2} = 25600$   
 63. (b)  $R + M + S = 63 \times 3 = 189$   
 $A - R = 15$   
 $R = M + 10$   
 $A = 63 + 30 = 93$   
 $R = A - 15 = 93 - 15 = 78$   
 $M + S = 189 - R = 111$

64. (c) Total Expenditure on the fooding of 5 persons =  $32 \times 5 = 160$   
 $\frac{160+x+80}{6} = x \Rightarrow x = 48/-$   
 Total =  $48 \times 6 = 288$   
 65. (b)  $4\sqrt{2} + 6\sqrt{2} = 14.14$   
 $\sqrt{2} = 1.414 = \sqrt{18} + \sqrt{50} + \sqrt{98} + \sqrt{1250}$   
 $= 3\sqrt{2} + 5\sqrt{2} + 7\sqrt{2} + 25\sqrt{2}$   
 $= 40\sqrt{2} = 56.56$   
 66. (a); Cost price of the rice per kg =  $\frac{3 \times 35 + 2 \times 45}{3+2} = 39/-$   
 Profit =  $41.60 - 39 = 2.60 = \frac{2.60}{39} \times 100\% = 6\frac{2}{3}\%$   
 67. (b); 4 litre = 20% of total amount =  $4 \times \frac{100}{20} = 20$  litre  
 68. (c)  
 69. (d); The income of first year =  $\frac{2}{3} \times 45,000 = 30,000$   
 $\therefore$  saving of first year = 5000  
 Expenditure of second year =  $\frac{9}{5} \times 25,000 = 45000$   
 Saving of second year = 0  
 Total saving =  $5000 + 0 = 5000$   
 70. (a); 90% of 115% of  $x = 517.50$   
 $x = 500/-$   
 71. (c); C.P. =  $x$   
 S.P. =  $y$   
 $\Rightarrow \frac{2}{3}$  of  $y = 90\%$  of  $x$   
 $y = \frac{27}{20}x$   
 profit =  $\frac{27}{20}x - x = \frac{7x}{20}$   
 Profit% =  $\frac{7}{20} \times 100\% = 35\%$   
 72. (a);  
 73. (b); Total annual increase =  $(2.5 - 0.5)\% = 2\%$   
 $\therefore$  Increase in 2 year =  $(1.02 \times 1.02 - 1) \times 100\% = 4.04\%$   
 74. (c); % of students who took both the subjects =  $72\% + 44\% - 100\% = 16\%$   
 $\Rightarrow 16\% = 40$   
 $\Rightarrow 100\% = \frac{40}{16} \times 100 = 250$   
 75. (b); The amount of impurity = 10 liters.  
 If 5% = 10 liters, then 100% = 200 liters.  
 $\therefore$  the amount of new pure glycerin =  $200 - 50 = 150$  liters  
 80% of 50% +  $x = (95\%$  of  $(50 + x)) \Rightarrow x = 150$  liter  
 76. (a)  
 77. (c)  
 78. (d)  
 79. (b); Required ratio =  $\frac{x \times \frac{30}{100}}{x \times \frac{130}{100} \times \frac{50}{100}} = \frac{6}{13}$   
 80. (c); Let income of company  $x$  in the year 2001-2002 is  $x$  Rs.  
 Then,  $50 = \frac{(\text{Income}) - x}{x} \times 100$

$$(\text{income}) = \frac{50}{100}x + x = \frac{3}{2}x$$

$$\text{Req. ratio} = \frac{x}{\frac{3}{2}x} = \frac{2}{3}$$

81. (c);

$$82. (c) 20 = \frac{(\text{Income}) - 40}{40} \times 100$$

$$\text{Income} = \frac{20 \times 40}{100} + 40 = 48 \text{ crore.}$$

83. (b);  $\sin A - \sqrt{6} \cdot \cos A = \sqrt{7} \cdot \cos A$

$$\sin^2 A + 6 \cos^2 A - 2\sqrt{6} \cdot \sin A \cdot \cos A = 7 \cos^2 A$$

$$\Rightarrow \sin^2 A = \cos^2 A + 2\sqrt{6} \sin A \cdot \cos A$$

$$7 \sin^2 A = \cos^2 A + 2\sqrt{6} \sin A \cdot \cos A + 6 \sin^2 A$$

$$\text{or } 7 \cdot \sin^2 A = (\cos A + \sqrt{6} \cdot \sin A)^2$$

$$\therefore \cos A + \sqrt{6} \cdot \sin A = \pm \sqrt{7} \cdot \sin A$$

84. (d);  $\cos x + \cos^2 x = 1$

$$\cos x = 1 - \cos^2 x = \sin^2 x$$

$$\text{Now, } \sin^{12} x + 3 \sin^{10} x + 3 \sin^8 x + \sin^6 x - 1$$

$$= \cos^6 x + 3 \cos^5 x + 3 \cos^4 x + \cos^3 x - 1$$

$$= (\cos^2 x + \cos x)^3 - 1 = 1^3 - 1 = 0$$

85. (c);  $(\sec A - \cos A)^2 + (\text{cosec } A - \sin A)^2 -$

$$(\cot A - \tan A)^2$$

$$= \sec^2 A + \cos^2 A - 2 \sec A \cdot \cos A + \text{cosec}^2 A +$$

$$\sin^2 A - 2 \sin A \cdot \text{cosec } A - \cot^2 A - \tan^2 A +$$

$$2 \cot A \cdot \tan A$$

$$= \sin^2 A + \cos^2 A + \sec^2 A - \tan^2 A + \text{cosec}^2 A -$$

$$\cot^2 A - 2 - 2 + 2$$

$$= 1$$

86. (d);  $(\sec x \cdot \sec y + \tan x \cdot \tan y)^2 - (\sec x \cdot \tan y +$

$$\tan x \cdot \sec y)^2$$

$$= \left( \frac{1 + \sin x \cdot \sin y}{\cos x \cdot \cos y} \right)^2 - \left( \frac{\sin x + \sin y}{\cos x \cdot \cos y} \right)^2$$

$$= \frac{(1 - \sin^2 x) \cdot (1 - \sin^2 y)}{\cos^2 x \cdot \cos^2 y} = 1$$

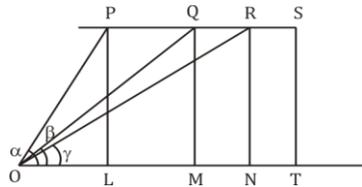
87. (c);  $\frac{\cos^2 \theta}{\cot^2 \theta - \cos^2 \theta} = 3$

$$\Rightarrow \cos^2 \theta = 3 \cot^2 \theta - 3 \cos^2 \theta$$

$$4 \cos^2 \theta = \frac{3 \cos^2 \theta}{\sin^2 \theta}$$

$$\sin \theta = \frac{\sqrt{3}}{2} \Rightarrow \theta = 60^\circ$$

88. (a) P, Q, R, S are four positions of bird at equal time interval.



$$\text{Let } PQ = QR = RS = x$$

$$\therefore LM = MN = NT = x$$

$$\text{Let } PL = h \text{ and } OL = l$$

$$\text{In } \Delta OLP, \cot \alpha = \frac{l}{h}$$

$$\text{In } \Delta OMQ, \cot \beta = \frac{l+x}{h}$$

$$\text{In } \Delta ONR, \cot \gamma = \frac{l+2x}{h}$$

$$\text{In } \Delta OTS, \cot \delta = \frac{l+3x}{h}$$

$$\cot^2 \alpha - \cot^2 \delta = \frac{l^2}{h^2} - \frac{(l+3x)^2}{h^2} = \frac{l^2 - (l+3x)^2}{h^2}$$

$$\cot^2 \beta - \cot^2 \gamma = \left( \frac{l+x}{h} \right)^2 - \left( \frac{l+2x}{h} \right)^2 = \frac{(l+x)^2 - (l+2x)^2}{h^2}$$

$$\Rightarrow \frac{\cot^2 \alpha - \cot^2 \delta}{\cot^2 \beta - \cot^2 \gamma} = \frac{3(-2xl - 3x^2)}{(-3x^2 - 2xl)} = 3$$

89. (d);  $\frac{n-2}{n} \times 180^\circ = 135^\circ \Rightarrow n = 8$

$$\text{No. of diagonals} = \frac{n(n-3)}{2} = 20$$

90. (d);  $\Delta AEF \sim \Delta ABC$

$$\therefore \frac{\text{Area of } \Delta AEF}{\text{Area of } \Delta ABC} = \left( \frac{EF}{BC} \right)^2 = \left( \frac{3}{7} \right)^2 = \frac{9}{49}$$

$$\text{Area of trapezium BEFC} = 49K - 9K = 40K$$

$$\therefore \frac{\text{area of } \Delta AEF}{\text{area of trapezium BEFC}} = \frac{9K}{40K} = \frac{9}{40}$$

91. (b);  $\frac{AP}{PB} = \frac{AQ}{QC} = \frac{1}{3}$

$$\Rightarrow \Delta APQ \sim \Delta ABC$$

$$\frac{AP}{AB} = \frac{1}{1+3} = \frac{1}{4}$$

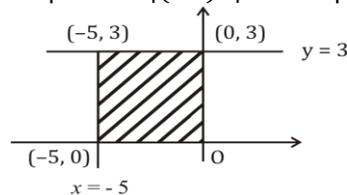
$$\frac{\text{Area of } \Delta APQ}{\text{Area of } \Delta ABC} = \left( \frac{1}{4} \right)^2 = \frac{1}{16}$$

$$\frac{\text{Area of } \Delta APQ}{\text{Area of } PBCQ} = \frac{1}{16-1} = \frac{1}{15}$$

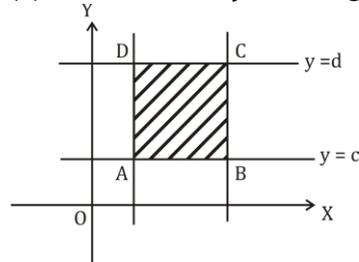
92. (d); The two triangle mentioned in the questions have centroid at the same point.

93. (b); Area enclosed is a rectangle.

$$\text{Req. Area} = |(-5)3| = 15 \text{ square unit}$$



94. (a);  $x = a$  &  $x = b$ ,  $y$  are straight line parallel to  $y$ -axis.



$y = c$  and  $y = d$ ,  $x$  are straight line parallel to  $x$ -axis.

$$\text{Req. Area} = (b - a)(d - c)$$

95. (a)  $x + \frac{a}{x} = 1 \Rightarrow x - 1 = \frac{a}{x}$

$$\frac{x^2(x-1)}{x(x+\frac{a}{x})+x} = \frac{x^2 \cdot \frac{a}{x}}{x \cdot 1 + x}$$

$$\text{Putting } x - 1 = \frac{a}{x} \text{ and } \frac{ax}{2x} = \frac{a}{2}$$

96. (a)  $a = \frac{xy}{x+y}$ ,  $b = \frac{xz}{x+z}$  &  $c = \frac{yz}{y+z}$   
 $\left(\frac{1}{y} + \frac{1}{x}\right) + \left(\frac{1}{z} + \frac{1}{x}\right) - \left(\frac{1}{z} + \frac{1}{y}\right) = \frac{1}{a} + \frac{1}{b} - \frac{1}{c}$   
 $\frac{2}{x} = \frac{bc+ca-ab}{abc}$   
 $x = \frac{2abc}{bc+ca-ab}$
97. (c) IInd expression =  $\frac{HCF \times LCM}{1st\ expression}$   
 $= \frac{(a+1)(a+1)(a+1)(a-1)}{(a-1)(a+1)} = (a+1)^2$
98. (c)  $p + q + (-r) = 0$   
 $p^3 + q^3 + (-r)^3 = 3pq(-r) = 3 \times (-30) = -90$   
 [Recall that  $a + b + c = 0, \Rightarrow a^3 + b^3 + c^3 = 3abc$ ]
99. (c);  $\frac{\pi r^2}{2} = 1925 \Rightarrow r = 35$   
 $\therefore$  width of rectangle = perimeter of semicircle  
 $= \pi r + 2r = 180$  cm  
 Length of rectangle =  $4 \times 48 = 192$  cm  
 Perimeter of rectangle =  $2(180 + 192)$   
 $= 744$  cm
100. (c); Length and breadth of rectangle are —  
 30 cm and 10 cm  
 $\therefore$  Area of square =  $3 \times$  Area of rectangle  
 $(sides)^2 = 3 \times 30 \times 10 = 900$   
 Side = 30 cm  
 Perimeter of square =  $4 \times 30 = 120$  cm
151. C ('at sea' means feeling weak)  
 152. A ('high and dry' means something isolated from others)  
 153. D  
 154. C  
 155. B  
 156. A (meaning is- Improperly forward or bold; not pertinent to the matter under consideration)  
 157. C (meaning is- Marked by blithe unconcern)  
 158. D (meaning is- Stubbornly persistent in wrongdoing)  
 159. A (meaning is- Full of or showing high-spirited merriment)  
 160. B (meaning is- A period during which something or somebody is dominant or powerful)  
 161. D (meaning is- Causing or fraught with or showing anxiety)  
 162. C  
 163. C  
 164. A  
 165. D  
 166. A  
 167. B  
 168. C  
 169. D

170. C  
 171. D  
 172. C  
 173. B  
 174. A  
 175. C  
 176. A (after 'advise' 'to' doesn't come before an object)  
 177. B (Replace 'stand' with 'stood')  
 178. B (Replace 'no' with 'any')  
 179. A (for imaginary sentences we do not use 'was', instead 'were' is used)  
 180. C (after 'dare not' infinitive 'to' is not used)  
 181. B  
 182. A  
 183. B  
 184. D  
 185. B  
 186. C  
 187. A  
 188. A  
 189. D  
 190. B  
 191. B (answer is in Para 1, line 2)  
 192. C (answer is in Para 1, line 4)  
 193. D (answer is in Para 3, line 1 and line 3)  
 194. D (answer is in Para 2, line 2; Para 3, line 5)  
 195. B (answer is in Para 3, last line)  
 196. C (answer is in Para 1, line 1)  
 197. A (answer is in Para 2, line 1)  
 198. A (answer is in Para 2, last line)  
 199. D (answer is in Last Para)  
 200. D (answer is in Para 1, line 2)



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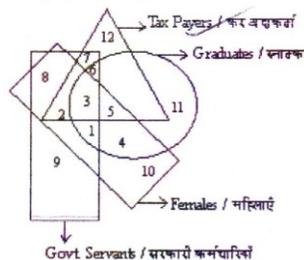
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# SSC CPO Held on 20<sup>th</sup> March : MORNING SHIFT PRACTICE SET

## REASONING

1. The information collected through a survey conducted among the public is represented in the Venn diagram given below. Study the diagram and answer the question. Which of the following represents Govt. servants who are tax payers, but are neither females nor graduates?



- (a) 6 (b) 5  
(c) 12 (d) 7
2. A 7 metre long piece of cloth is cut into three smaller pieces. How long is the longest of the three pieces? Given that
- Statements: I.** He piece is 3.70 metre long.  
**II.** One piece is 1.50 metre longer than another piece and the remaining piece is 90 cm long.
- (a) Statement I alone but not Statement II alone is sufficient to answer the problem.  
(b) Statement I alone sufficient and also statement II alone sufficient to answer the problem.  
(c) Statement II alone but not Statement I alone is sufficient to answer the problem.  
(d) Statement I and II both are needed to answer the problem.

**Directions:** In the following **Two** questions, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in 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., 'A' can be represented by 03, 44 etc., and 'Q' can be represented by 55, 78 etc. Similarly, you have to identify the set for the word given in questions.

### 3. RETAIL

	0	1	2	3	4
0	M	O	R	A	L
1	O	R	A	L	M
2	R	A	L	M	O
3	A	L	M	O	R
4	L	M	O	R	A

	5	6	7	8	9
0	Q	U	I	E	T
1	U	I	E	T	Q
2	I	E	T	Q	U
3	E	T	Q	U	I
4	T	Q	U	I	E

- (a) 20, 77, 85, 21, 13, 57 (b) 77, 21, 20, 85, 57, 13  
(c) 77, 85, 21, 13, 57, 20 (d) 20, 85, 77, 21, 57, 13

### 4. BIRDS

	0	1	2	3	4
0	S	P	A	R	E
1	P	A	R	E	S
2	A	R	E	S	P
3	R	E	S	P	A
4	E	S	P	A	R

	5	6	7	8	9
5	B	U	I	L	D
6	U	I	L	D	B
7	I	L	D	B	U
8	L	D	B	U	I
9	D	B	U	I	L

- (a) 87, 12, 75, 68, 23 (b) 23, 75, 12, 87, 23  
(c) 86, 12, 75, 23, 68 (d) 87, 75, 12, 68, 23
5. **Directions :** In the following **Six** questions, select the related word/letters/number from the given alternatives.  
AZBY : CXDW :: EVFU ::
- (a) BXWD (b) ZYEU  
(c) FUVE (d) GTHS
6. 23 : 0827 :: 45 : ?  
(a) 64125 (b) 12025  
(c) 08125 (d) 12125
7. Nurture : Neglect :: Denigrate : ?  
(a) Extol (b) Reveal  
(c) Reply (d) Recognise
8. ABDG : ZYWT :: BCEH : ?  
(a) SVXY (b) YXTS  
(c) QPRU (d) YXVS
9. 43 : 57 :: 111 : ?  
(a) 135 (b) 134  
(c) 133 (d) 136
10. Modesty : Arrogance :: ?  
(a) Speak : Lecture (b) Obese : Fat  
(c) Ship : Fleet (d) Debility : Strength
11. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?  
\_qpx\_rq\_xxr\_pxx\_qp\_x

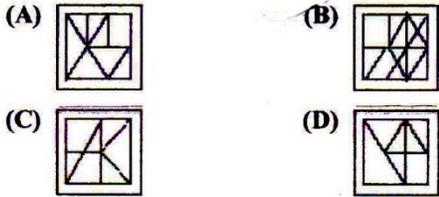
- (a) pxrpxr (b) rxpqrq  
(c) rsqprx (d) xrprqx

**Directions :** In the following **Two** questions, From the given answer figures, select the one in which the question figure is hidden/embedded.

### 12. Question Figure



Answer Figures



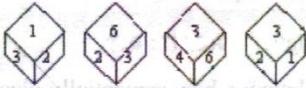
13. Question Figure



Answer Figure

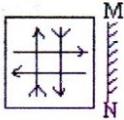


14. Four positions of a dice are given below. Identify the number at the bottom when top is 5.

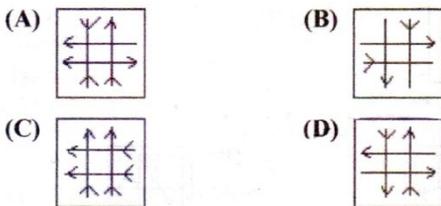


- (a) 4 (b) 1  
(c) 3 (d) 2

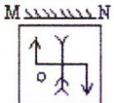
15. Question Figure



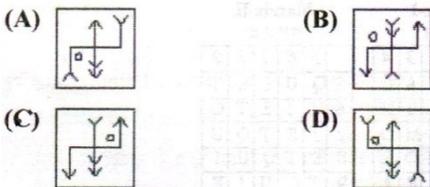
Answer Figure



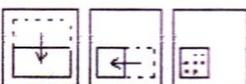
16. Question Figure



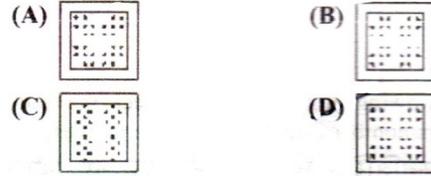
Answer Figure



17. Question Figure



Answer Figure



18. Find the odd number pair.

- (a) 183 – 54 (b) 108 – 97  
(c) 243 – 132 (d) 99 – 63

19. Find the odd letters.

- (a) K M P T (b) N P S W  
(c) D F O U (d) D F I M

20. Find the odd word.

- (a) Captain (b) Wing Commander  
(c) Air Marshal (d) Group Captain

21. Find the odd number:

- (a) 286 (b) 583  
(c) 166 (d) 495

22. Find the odd letters:

- (a) A G M (b) M S Y  
(c) L R X (d) I N U

23. Find the odd word.

- (a) Square (b) Rectangle  
(c) Kite (d) Rhombus

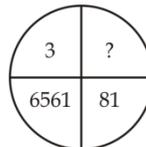
24. In a peculiar mathematical operation plus means multiplication, minus means plus, divided means minus and multiplications means sum of digits of two numbers. Follow these rules and solve the following example.

$$(6 \times 7) - (8 \times 9) - (10 \times 11) = ?$$

- (a) 04 (b) 33  
(c) 224 (d) 52

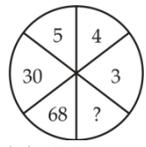
Directions : In the following Four questions, select the missing number from the given responses:

25.



- (a) 9 (b) 24  
(c) 18 (d) 27

26.



- (a) 129 (b) 131  
(c) 128 (d) 130

27. D

144	25	13
196	29	15
324	?	19

- (a) 37 (b) 29  
(c) 41 (d) 39

28. 

16	25	48	8
2	5	3	6
8	25	36	16
4	5	4	?

- (a) 8 (b) 3  
(c) 6 (d) 12

29. A is elder to B while C and D are elder to E who lies between A and C. If C is elder to B, who is the youngest?

- (a) D (b) B  
(c) C (d) A

30. Sanjith faces towards north turning to his right, he walks 10 m. He then turn to left and walks 30 m. He moves 25 m to his right and again to right through 50 m. Finally he turns to right and moves 40 m. In which direction is he now from his starting point?

- (a) South-East (b) South-West  
(c) North-East (d) North-West

31. Indu starts travelling towards east and stops after 35 km and turns right and walks another 15 km and again turns right and walk 15 km and then stops. What is the minimum distance Indu has to walk to reach the starting point?

- (a) 20 km (b) 30 km  
(c) 25 km (d) 35 km

**Directions :** In the following **Two** questions, from the given alternative words, select the word which cannot be formed using the letters of the given word:

32. ORGANISATION  
(a) ORGANISE (b) NATION  
(c) ORATION (d) ORGAN
33. PERAMBULATOR  
(a) RAMPANT (b) LABOUR  
(c) MARBLE (d) RAMBLE

**Directions :** In the following **Two** questions, which answer figure will complete the pattern in the question figure?

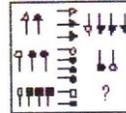
34. Question Figure



Answer Figures



35. Question Figure



Answer Figure

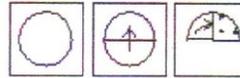


**Directions :** In the following **Two** questions, a series is given, with one term missing. Choose the correct alternative from the given options that will complete the series

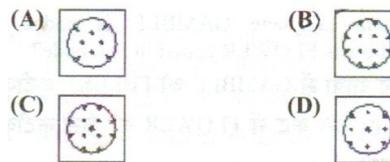
36. 3, 17, 45, 87, \_\_?\_\_  
(a) 123 (b) 183  
(c) 143 (d) 153
37. AZWD, CXUF, \_\_?\_\_ GTQJ  
(a) EVSH (b) EVPI  
(c) EUSH (d) EUTH

38. A circular piece of paper is folded and punched as shown in the question figure. How will it appear when opened?

Question Figures

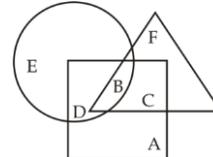


Answer Figures



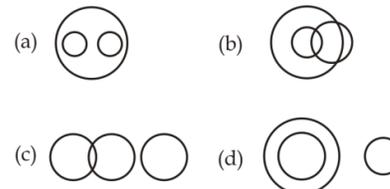
39. Triangle represents school teachers. Square represents married persons. Circle represents persons living in joint families.

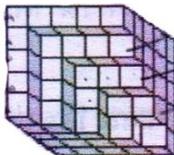
Married persons living in joint families but not working living in joint families but not working as school teachers are represented by



- (a) F (b) A  
(c) C (d) D

40. Which of the following diagrams represents the correct relationship between Doctors, Specialist Doctors And Patients?



41. X is sister of Y. Y is brother of Z. Z is husband of P. O is father of Y. How is P related to O?  
 (a) Sister (b) Daughter-in-law  
 (c) Daughter (d) Uncle
42. Two statements are given, followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements  
**Statements:** I. All pens are Erasers.  
 II. All Erasers are Pencils.  
**Conclusions:** I. All pencils are Pens.  
 II. All Pens are Pencils  
 (a) Only conclusion II follows.  
 (b) Only conclusion I follows.  
 (c) Both conclusion I and II follow.  
 (d) Neither conclusion I nor II follows.
43. Which numbers complete the series?  
**3 1 5 3 5 9 \_ \_ 11**  
 (a) 8, 7 (b) 7, 7  
 (c) 6, 6 (d) 7, 6
44. Which one of the following responses would be a meaningful order of the following?  
 1. estimate 2. Contract 3. concept  
 4. plan 5. execute  
 (a) 3, 4, 1, 2, 5 (b) 1, 4, 3, 5, 2  
 (c) 5, 2, 4, 3, 1 (d) 3, 1, 2, 4, 5
45. If  $678 = 83$ ,  $476 = 75$  and  $567 = 80$ , what is  $369 = ?$   
 (a) 40 (b) 72  
 (c) 99 (d) 18
46. The structure shown in the figure is made of small cubes. First, third and fifth layers are made of black cubes, and the others are white cubes. How many cubes are there in the structure?  
  
 (a) 75 (b) 25  
 (c) 95 (d) 45
47. Grouping of words are given. Choose the next words in the series from the given options.  
 AFGHAN, INDEFINITELY, SYNOPSIS,  
 STUPENDOUS, BURST  
 (a) GLACIAL (b) HIJACKER  
 (c) COMPANION (d) RESCRIPT
48. Mona is 6 years younger to her husband and he is 5 times as old as his daughter Rina. If Rina was 5 years old 3 years back, what is the present age of Mona?  
 (a) 34 (b) 40  
 (c) 30 (d) 35
49. In a certain language **GAMBLE** is coded as **FBLCKF**, how is **FLOWER** coded in that code?  
 (a) GMPVDS (b) EMNXDS  
 (c) EKNVDQ (d) GKPVFQ
50. If **BHASHA** is coded as **154754**, **BRAIN** is coded as **13408**, **AHINSA** will be coded as  
 (a) 450847 (b) 450874  
 (c) 458074 (d) 405847

### GENERAL KNOWLEDGE & GENERAL AWARENESS

51. In the absence of the president and Vice—President, who discharges the functions of the President?  
 (a) Chief Justice of India (b) Attorney General  
 (c) Advocate General  
 (d) Comptroller and Auditor General
52. Demand curve is indeterminate under  
 (a) oligopoly (b) duopoly  
 (c) monopoly (d) pure competition
53. The method of age determination called "radioactive uranium dating" cannot be used to determine the age of"  
 (a) minerals on earth (b) rock  
 (c) fossils and plant bodies (d) the earth
54. Which of the following is present in maximum amount in acid rain?  
 (a)  $H_2SO_4$  (b)  $HNO_3$   
 (c)  $H_2CO_3$  (d) HCl
55. If the pressure in a closed vessel is reduced by drawing out some gas, the mean free path of the gas molecules will  
 (a) increase or decrease depending on the nature of the gas  
 (b) increase  
 (c) remain unchanged  
 (d) decrease
56. In terms of value, India's exports in Descending order are  
 (a) Gems & Jewellery, Textiles, Engineering goods.  
 (b) Engineering goods, Gems & Jewellery, Textiles.  
 (c) Textiles, Engineering goods, Gems & Jewellery.  
 (d) Textiles Gems & Jewellery, Engineering goods.
57. The original jurisdiction of the Supreme Court covers,  
 (a) Civil and Criminal cases.  
 (b) Disputes between different units of the Indian Union.  
 (c) National Integrity of India.  
 (d) Terrorism related cases.

58. Who among the following was the Prime Minister of England when India was given independence?  
 (a) Attlee (b) Wavell  
 (c) Churchill (d) Mountbatten
59. The Vedic literature was composed between  
 (a) 3500 B.C and 1000 B.C (b) 2500 B.C and 500 B.C  
 (c) 3500 B.C and 2500 B.C (d) 3000 B.C and 1000 B.C
60. Viruses that infect bacteria are called  
 (a) Basidiospores (b) Basophils  
 (c) Bacteriophages (d) Basal body
61. Starch is insoluble in water but still it is stored in large quantity in potato because  
 (a) soil microorganisms deposit it in the tuber.  
 (b) it is synthesized in potato root.  
 (c) it is translocated in the form of sugar from  
 (d) it is useful for human.
62. A dispersion indicates  
 (a) the value of mode.  
 (b) spread of data around central measure.  
 (c) the value of mean.  
 (d) the value of standard deviation.
63. Which of the following determines whether a group of organisms that is from the same genus and species arise from a common source or from different sources?  
 (a) Biotyping (b) Phage typing  
 (c) Serotyping (d) DNA hybridization
64. Comptroller and Auditor General of India is not responsible for  
 (a) Regulating Reserve Bank of India  
 (b) Issue of money from the Consolidated Fund.  
 (c) Making payments to the States.  
 (d) Accounting of States & UTs, and Auditing of all Government Institutions.
65. Which of the following has become the first airport in the world to fully operational on Solar Power?  
 (a) Amritsar International Airport.  
 (b) Netaji Subhash Chandra Bose International Airport.  
 (c) Cochin International Airport Ltd. (Kerala.)  
 (d) Lokpriya Gopinath Bardoli International
66. The concept of Liberty, Equality and Fraternity enshrined in the Indian Constitution is inspired from  
 (a) US Constitution (b) Irish Constitution  
 (c) French Constitution (d) UK Constitution
67. U – 235 belongs to which member of the series?  
 (a) Uranium series (b) Neptunium series  
 (c) Actinium series (d) Thorium series
68. The directive principles of state policy of the Indian Constitution is an idea borrowed from the Constitution of  
 (a) Australian (b) American  
 (c) Ireland (d) Russian
69. Who among following Indian have been long listed among the 13 international authors for The Man Booker Prize of 2015?  
 (a) Anuradha Roy and Sanjeev Sahata  
 (b) Amitav Ghosh and Amrita pritam  
 (c) Arvind Adiga and Shashi Tharor  
 (d) Chetan Bhagat and Jhumpa Lahiri
70. Parliamentary Government is a form of Constitutional democracy in which  
 (a) the executives emerge from and the responsible to the judiciary.  
 (b) the legislatures emerge from and is responsible to the judiciary.  
 (c) the executive emerge from and is responsible to the legislature.  
 (d) the legislature emerge from and is responsible to the executive.
71. In Indian architecture 'Surkhi' was introduced by  
 (a) Kushans (b) Mughals  
 (c) Guptas (d) Sultanate Sultans
72. In which of the following year the Gandhi-Irwin Pact was signed?  
 (a) 1929 (b) 1931  
 (c) 1935 (d) 1932
73. A new molecule Heat Shock Protein 90 (HSP90) was discovered in 2014 by the Didier Picard. The new discovery could help in effective treatment of  
 (a) AIDS (b) None of these  
 (c) TB (d) Malaria
74. An organic which produces bluish green coloured flame on heating in presence of copper is  
 (a) Aniline (b) Benzoic Acid  
 (c) Chlorobenzene (d) Benzaldehyde
75. Which type of molecular motion does not contribute towards internal energy?  
 (a) Vibrational (b) None of these  
 (c) Rotational (d) Translational
76. Antigen presenting cells are specialized cells present in all of the following, except  
 (a) Kidney (b) Lymph node  
 (c) Skin (d) Spleen
77. Professor Ramesh Chand has been appointed as new full time member of National Institution for Transforming India (NITI) Aayog. He is a  
 (a) Renowned Agriculture Expert  
 (b) None of these  
 (c) Renowned English Professor  
 (d) Renowned Physics Professor
78. The principle involved in the absorption of water by soil is  
 (a) Condensation (b) Suction action

- (c) Principle of absorption (d) Capillary action
79. The capsule of Anthoceros differs from Funaria in that in the latter  
 (a) elaters are absent (b) columella is absent  
 (c) columella is present (d) elaters are present
80. Which of the following countries has become the first country in the world to receive funds from United Nations for its fast growing Solar Home System?  
 (a) Bangladesh (b) Switzerland  
 (c) Burma (d) Afghanistan
81. Who of the following is not one of the recipients of Arjuna Award 2015?  
 (a) Anoop Singh (Wrestling)  
 (b) Dipa karmakar (Gymnastics)  
 (c) P.R. Sreejesh (Hockey)  
 (d) Jitu Rai (Shooting)
82. A plant with green leaves placed in red light will appear  
 (a) Violet (b) Red  
 (c) Black (d) Green
83. If the selling price of a product under perfect competition is Rs 25, the Marginal Revenue will be  
 (a) zero (b) more than Rs 25  
 (c) equal to Rs 25 (d) less than Rs 25
84. The lethal dose required to kill 50% of the lab animals tested under standard is referred as  
 (a)  $ID_{50}$  (b) MLD  
 (c)  $LD_{50}$  (d) ID
85. Which one of the following pacts sought to be resolved the Hindu-Muslim difference?  
 (a) Poona act (b) Lahore pact  
 (c) Gandhi-Irwin Pact (d) Lucknow Pact
86. One strategy of allocating kernel memory is known as  
 (a) register allocation (b) resource allocation  
 (c) slab allocation (d) frames allocation
87. Basic problems of an economy is/are  
 (a) Decide as to what, how and for whom to produce.  
 (b) Providing Social Security and employment to all.  
 (c) Elimination of poverty and reduction of inequalities of income and wealth.  
 (d) Providing basic requirements of life to all.
88. A closed vessel containing some gas at atmospheric pressure and room temperature is placed in a fast moving train. The temperature of the gas will  
 (a) Increase  
 (b) increase or decrease depending on the chemical composition of the gas  
 (c) decrease  
 (d) remain unchanged
89. Which of the following is not the essential element of the state?  
 (a) Population (b) Government  
 (c) Sovereignty (d) Institutions
90. Which of the following Football teams won UEFA Super Cup of Georgia on August 12, 2015?  
 (a) Real Madrid (b) Barcelona  
 (c) Sevilla (d) Atletico Madrid
91. Which of the following Islands is under direct threat of rising sea levels due to climate change has appealed for help from European leaders?  
 (a) Tuvalu Islands (b) Palau  
 (c) Nauru (d) Marshall Islands
92. Political Science is a science of  
 (a) Social Engineering (b) Economic Engineering  
 (c) Political Engineering (d) Cultural Engineering
93. In a simple Keynesian model equilibrium is characterized by the equality of  
 (a) realized saving and planned investment.  
 (b) realized saving and realized investment.  
 (c) planned savings and planned investment.  
 (d) planned saving and realized investment.
94. In which type of vulnerability, an unauthorized host pretends to be authorized host by meeting some authorization criterion?  
 (a) spoofing (b) keystroke logger  
 (c) phishing (d) tunnel
95. The Rath temples at Mahabalipuram were built by  
 (a) Chalukyas (b) Cholas  
 (c) Chedis (d) Pallavas
96. The book "Globalization, Democratization and Distributive Justice" has been authored by  
 (a) Anita Nair (b) Karan Bajaj  
 (c) Mool Chand Sharma (d) Salman Rushdie
97. The minor irrigation schemes have Cultural command Area (CCA) upto  
 (a) 3000 hectares (b) 1500 hectares  
 (c) 2500 hectares (d) 2000 hectares
98. How many times did Babur invade India before 1526 A.D.?  
 (a) Two times (b) Four times  
 (c) None of these (d) Five times
99. Marginal Revenue is  
 (a) Revenue realized from the sale of all units.  
 (b) The average revenue of a firm.  
 (c) Revenue realized on every unit sold.  
 (d) Revenue realized on the sale of an extra units.
100. Altocum clouds occur at altitude of  
 (a) 2000 m – 6000 m (b) 6000 m – 10000 m  
 (c) 1000 m – 1800 m (d) 10000 m – 12000 m

**QUANTITATIVE APTITUDE**

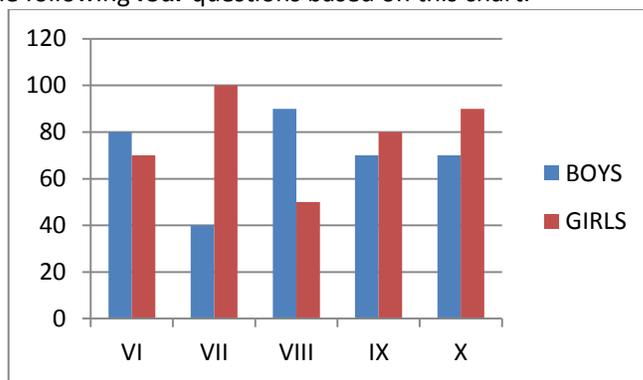
**Directions :** Study the following table which shows the amount of money invested (Rupees in crore) in the core infrastructure areas of two districts, A and B of a State, and answer the below **five** questions.

Core Area	District A		District B	
	1995	1996	1995	1996
Electricity	815.2	1054.2	2065.8	2365.1
Chemical	389.5	476.7	745.3	986.4
Thermal	632.4	565.9	1232.7	1026.3
Solar	468.1	589.6	1363.5	1792.1
Nuclear	617.9	803.1	1674.3	2182.1
Total	2923.1	3489.5	7081.6	8352.0

- 101.** By approximately what percent was the total investment in the two districts A and B more in 1996 as compared to 1995?  
 (a) 18% (b) 21%  
 (c) 14% (d) 24%
- 102.** The total investment in electricity and thermal energy in 1995, in these two districts A and B formed approximately what percent of the total investment made in that year?  
 (a) 55% (b) 52%  
 (c) 41% (d) 47%
- 103.** In district B, the investment in which area in 1996 did show the highest percentage increase over the investment in that area in 1995?  
 (a) Chemical (b) Nuclear  
 (c) Electricity (d) Solar
- 104.** Approximately how many times was the total investment in 1995 and 1996 in district B was that of total investment of district A in the same years?  
 (a) 2.4 (b) 1.7  
 (c) 1.9 (d) 2.8
- 105.** If the total investment in district B shows the same rate of increase in 1997, as it had shown from 1995 to 1996, what approximately would be the total investment in B in 1997?  
 (a) Rs 10020 crore (b) Rs 9170 crore  
 (c) 8540 crore (d) 9850 crore
- 106.** The sum of two numbers is  $15\frac{1}{3}$  and their difference is  $4\frac{2}{3}$ . The product of the numbers is  
 (a) 60 (b) 50  
 (c)  $48\frac{2}{3}$  (d)  $53\frac{1}{3}$
- 107.** A cylindrical rod of radius 30 cm and length 40 cm is melted and made into spherical balls of radius 1 cm. The number of spherical balls is  
 (a) 27000 (b) 40000  
 (c) 90000 (d) 36000

- 108.** A merchant purchases a wrist watch for Rs 1,200 and fixes its list price in such a way that after allowing a discount of 10%, he earns a profit of 20%. The list price of the watch is  
 (a) Rs1,800 (b) Rs1,200  
 (c) Rs1,400 (d) Rs1,600
- 109.** The value of  $\sin^2 2^\circ + \sin^2 4^\circ + \sin^2 6^\circ + \dots + \sin^2 90^\circ$  is  
 (a) 44 (b) 0  
 (c) 22 (d) 23

**Directions :** The bar graph shows the results of an annual examination in a secondary school in a certain year. Answer the following **four** questions based on this chart.



- 110.** The average number of boys passed per class is  
 (a) 75 (b) 70  
 (c) 72 (d) 78
- 111.** The class having the highest number of passed students, is  
 (a) VII (b) X  
 (c) VIII (d) IX
- 112.** The ratio of the total number of boys passed to the total number of girls passed in the three classes VII, VIII and IX is  
 (a) 19 : 25 (b) 18 : 21  
 (c) 20 : 23 (d) 21 : 26
- 113.** The class in which the number of boys passed is nearest to the average number of girls passed per class.  
 (a) VI (b) IX  
 (c) VIII (d) X
- 114.** If  $x + 1 = \sqrt{y} + 3, y > 0$ , then the value of  $\frac{1}{2} \left( \frac{x^3 - 6x^2 + 12x - 8}{\sqrt{y}} - y \right)$   
 (a) -1 (b) 1  
 (c)  $\frac{1}{2}$  (d) 0
- 115.** If  $\frac{a}{b} = \frac{c}{d} = \frac{e}{f}$ , then each of them is equal to

- (a)  $\frac{a+3c+5e}{b+d-f}$  (b)  $\frac{a+c-e}{b+d-5f}$  (c)  $\frac{a+3c-5e}{b+3d-5f}$  (d)  $\frac{3a+3c-5e}{b+3d-f}$
116. A number is increased by 15% and then decreased by 25% and the number becomes 22 less than the original number. The original number is  
 (a) 120 (b) 100 (c) 140 (d) 160
117. A sum of money placed at compound interest double itself at 2 years. The year it will take to amount 4 times itself is  
 (a) 3 (b) 4 (c) 6 (d) 8
118. If  $x = 1 + \sqrt{2} + \sqrt{3}$  and  $y = 1 + \sqrt{2} - \sqrt{3}$ , then the value of  $\frac{x^2 - 4xy - y^2}{x - y}$   
 (a)  $2\sqrt{2}$  (b) 6 (c) 1 (d)  $2(1 + \sqrt{2})$
119. From the top and bottom of a straight hill, the angle of depression and elevation of the top of a pillar of 10 m. height are observed to be  $60^\circ$  and  $30^\circ$  respectively. The height (in metres) of the hill is  
 (a) 60 (b) 80 (c) 30 (d) 40
120. The average monthly income of A and B is Rs 15,050, the average monthly income of B and C is Rs 15,350 and the average income of A and C is Rs 15,200. The monthly income of A is  
 (a) Rs 15,900 (b) Rs 14,900 (c) Rs 15,500 (d) Rs 15,200
121. A man travelled a distance of 72 km in 12 hours. He travelled partly on foot at 5 km/hour and partly on bicycle at 10 km/hour. The distance travelled on foot is  
 (a) 50 km (b) 46 km (c) 52 km (d) 48 km
122. If  $0 < \theta < 90^\circ$ ,  $\tan \theta + \sin \theta = m$  and  $\tan \theta - \sin \theta = n$ , where  $m \neq n$ , then the value of  $m^2 - n^2$  is  
 (a)  $4mn$  (b)  $4\sqrt{mn}$  (c)  $2(\tan^2\theta + \sin^2\theta)$  (d)  $2(m^2 + n^2)$
123. A can is full of a mixture of two liquids A and B in the ratio of 7 : 5. When 9 litres of mixture are drawn off from the can and replaced by the same quantity of liquid B, the ratio of A and B in the can becomes 7:9. The capacity of the can is  
 (a) 21 litres (b) 10 litres (c) 36 litres (d) 20 litres
124. If  $\tan \theta + \sec \theta = 2$ , then the value of  $\tan \theta$  is  
 (a)  $\frac{3}{4}$  (b)  $\frac{2}{3}$  (c)  $\frac{3}{5}$  (d)  $\frac{4}{5}$
125. A chord of length 24 cm is at a distance of 5 cm from the centre of a circle. The length of the chord of the same circle which is at a distance of 12 cm from the centre is  
 (a) 12 cm (b) 11 cm (c) 17 cm (d) 10 cm
126. If  $3^{x+y} = 81$  and  $81^{x-y} = 3$ , then the value of  $\frac{x}{y}$  is  
 (a)  $\frac{15}{17}$  (b)  $\frac{17}{30}$  (c)  $\frac{17}{15}$  (d)  $\frac{15}{34}$
127. If a person spends 40% of his income on food, 20% on house rent and 70% of the remaining on children's education, then the percentage of his income left is  
 (a) 8% (b) 12% (c) 10% (d) 6%
128. If p, q, r are all real numbers, then  $(p-q)^3 + (q-r)^3 + (r-p)^3$  is equal to  
 (a)  $3(p-q)(q-r)(r-p)$  (b)  $(p-q)(q-r)(r-p)$  (c) 0 (d) 1
129. The average age of a class is 15.8 years. The average age of the boys in the class is 16.4 years while that of the girls is 15.4 years. The ratio of boys of girls in the class is  
 (a) 2 : 3 (b) 1 : 2 (c) 3 : 4 (d) 3 : 5
130. In a  $\Delta ABC$ , a straight line parallel to BC intersects the sides AB and AC at P and Q respectively such that  $AP : PB = 3 : 2$ , then the ratio of the area of  $\Delta APQ : \Delta ABC$  is  
 (a) 4 : 9 (b) 9 : 4 (c) 9 : 25 (d) 25 : 4
131. A sum of Rs x was put at simple interest at a certain rate for 2 years. Had it been put at 3% higher rate, it would have fetched Rs 300 more. The value of 4x is  
 (a) Rs 36,000 (b) Rs 20,000 (c) RS 16,000 (d) Rs 24,000
132. By selling an article at  $\frac{3}{4}$  of selling price, a trader incurred a loss of 10%. The profit/loss percentage, when it is sold at the original selling price. is  
 (a) 20% profit (b) 120% profit (c) 20% loss (d) 32.5% loss
133. Points A and B are 100 km apart on a highway. One car starts from A and another from B at the same time. If the cars travel in the same direction, they meet in 5

- hours. If the cars travel towards each other, they meet in 1 hour. What is the speed of the faster car?  
 (a) 70 km/hour (b) 60 km/hour  
 (c) 40 km/hour (d) 80 km/hour
- 134.** A and B can separately finish a piece of work in 20 days and 15 days respectively. They worked together for 6 days, after which B was replaced by C. If the work was finished in next 4 days, then the number of days in which C alone could do the work is  
 (a) 60 days (b) 40 days  
 (c) 30 days (d) 50 days
- 135.** A man sells an article at 5% above the cost price. If he had bought it at 5% less than what he paid for it and sold it for Rs 2 less, he would have gained 10%. The cost price of the article is  
 (a) Rs 350 (b) Rs 400  
 (c) Rs 250 (d) Rs 200
- 136.** If  $0 < A < 90^\circ$ , then the value of  $\frac{1}{2} \cot A \left[ \frac{1 + (\sec A - \tan A)^2}{\operatorname{cosec} A (\sec A - \tan A)} \right]$  is  
 (a)  $\frac{1}{2}$  (b) 2  
 (c) 0 (d) 1
- 137.** The value of  $(\sqrt{6} + \sqrt{10} - \sqrt{21} - \sqrt{35})(\sqrt{6} - \sqrt{10} + \sqrt{21} - \sqrt{35})$  is  
 (a) 27 (b) 40  
 (c) 18 (d) 10
- 138.** A trader lists his article 20% above the cost price and allows a discount of 10% on cash payment. His gain percent is  
 (a) 8% (b) 10%  
 (c) 6% (d) 5%
- 139.** Let a be a positive integer. When 89 and 125 are divided by a, the remainders are 4 and 6 respectively. Then the value of a is  
 (a) 9 (b) 15  
 (c) 7 (d) 17
- 140.** AB and AC are two chords of a circle. The tangents at B and C meet at P. if  $\angle BAC = 54^\circ$ , then the measure of  $\angle BPC$  is  
 (a)  $108^\circ$  (b)  $72^\circ$   
 (c)  $36^\circ$  (d)  $54^\circ$
- 141.**  $x + \frac{1}{x} = 3$ , where  $x \neq 0$ , then the value of  $\frac{x^4 + 3x^3 + 5x^2 + 3x + 1}{x^4 + 1}$   
 (a) 3 (b) 2  
 (c) 5 (d) 7
- 142.** The length of the diagonal BD of the parallelogram ABCD is 12 cm. P and Q are the centroids of the  $\triangle ABC$  and  $\triangle ADC$  respectively. The length (in cm) of the line segment PQ is  
 (a) 5 (b) 4  
 (c) 6 (d) 3
- 143.**  $\frac{1}{a + \frac{1}{b + \frac{1}{c + \frac{1}{2}}}} = \frac{16}{23}$ , then the value of  $a + b + c$  is  
 (a) 9 (b) 6  
 (c) 3 (d) 12
- 144.** The curved surface area of a cylinder with its height equal to the radius, is equal to the curved surface area of a sphere. The ratio of volume of the cylinder to that of the sphere is  
 (a)  $2\sqrt{2} : 3$  (b)  $3 : 2\sqrt{2}$   
 (c)  $\sqrt{2} : 3$  (d)  $3 : \sqrt{2}$
- 145.** The sides of a triangle are 7 cm, 8 cm, 9 cm, then the area of the triangle (in  $\text{cm}^2$ ) is  
 (a)  $12\sqrt{5}$  (b)  $24\sqrt{5}$   
 (c)  $30\sqrt{5}$  (d)  $6\sqrt{5}$
- 146.** The ratio of the radii of two cylinders is 2 : 1 and their heights are in the ratio 3 : 2. Then their volumes are in the ratio  
 (a) 4 : 3 (b) 3 : 1  
 (c) 6 : 1 (d) 6 : 5
- 147.** The radii of the base of cylinder and a cone are equal and their volumes are also equal. Then the ratio of their heights is  
 (a) 2 : 1 (b) 1 : 3  
 (c) 1 : 2 (d) 1 : 4
- 148.** PQRS is a cyclic quadrilateral, such that ratio of measures of  $\angle P$ ,  $\angle Q$  and  $\angle R$  is 1 : 3 : 4 then the measure of  $\angle S$  is  
 (a)  $36^\circ$  (b)  $144^\circ$   
 (c)  $108^\circ$  (d)  $72^\circ$
- 149.** The value of  $\frac{(0.013)^3 + 0.000000343}{(0.013)^2 - 0.000091 + 0.000049}$  is  
 (a) 0.02 (b) 0.03  
 (c) 0.01 (d) 0.04
- 150.** If 4 men and 6 women can complete a work in 8 days, while 3 men and 7 women can complete it in 10 days, then women complete it in  
 (a) 35 days (b) 45 days  
 (c) 40 days (d) 50 days

## ENGLISH COMPREHENSION

**Directions :** In the following **Five** Questions, sentences 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 and indicate it by blackening the appropriate circle in the Answer Sheet.

**151.** He quarrelled with his boss, \_\_\_\_\_ of the consequences.

- (a) confident (b) devoid  
(c) weary (d) heedless

**152.** As the driver swerved violently at the turning, the wheel came off, as it was already \_\_\_\_\_.

- (a) loss (b) lost  
(c) lose (d) loose

**153.** Some verbs need a \_\_\_\_\_ to convey the full meaning.

- (a) complimentary (b) component  
(d) compliment (d) complement

**154.** The demonstration passed off without

- (a) coincidence (b) incidence  
(c) incident (d) accident

**155.** His profession is teaching but his \_\_\_\_\_ photography.

- (a) vacation (b) vocation  
(c) vocative (d) avocation

**Directions :** Read the passage carefully and choose the best answer to each question out of the four alternatives and mark it in the Answer Sheet.

**Passage (Five Questions)**

Flattery means 'praising insincerely in order to please'. Every flatterer says words in which he himself does not believe. While flattering he is insincere to the man he is praising and to himself. In doing so he does not mind if he corrupts the minds of those whom he flatters.

Flattery is immoral because it stains the human conscience. It creates a world of falsehood and thus an outrage of man's sense of decency and gentlemanly behaviour.

A man who feels happy when flattered lives in a fool's paradise. Flattery is the ready weapon of the opportunist. This weapon easily conquers the weak willed man. It works on the general weakness of human beings. We all love to be told what we are not rather than what we are. Flattery is equally bad for him who is flattered and for him who flatters.

Flattery deceives us by giving us false notions about ourselves. By falling a victim to it, we show lack of character. By accepting flattery we make ourselves small beings. It is an evil which ruins social and moral values by claiming what is not rightfully its own. It thrives on corruption and leads to human bankruptcy. It is thus the greatest of disease which can plague humanity.

**156.** 'Thrives' in the passage means

- (a) collects (b) provides  
(c) prospers (d) fills

**157.** Flattery means

- (a) insincere praise in order to please  
(b) being immoral  
(c) being anti-social (d) claiming what is not ours

**158.** Flattery can stain the

- (a) heart (b) mind  
(c) human conscience (d) emotion

**159.** How does the weapon of flattery work ?

- (a) A man feels sad.  
(b) It conquers the man with a weak will.  
(c) A man does not like it.  
(d) It conquers the man with a strong will.

**160.** How does flattery deceive us ?

- (a) It makes us feel indecent.  
(b) It makes us bankrupt.  
(c) It makes us more corrupt.  
(d) It gives us false ideas about ourselves.

**Directions :** In the following **Five** Questions, out of the four alternatives, choose the one which can be substituted for the given words/sentences and indicate it by blackening the appropriate circle in the Answer Sheet.

**161.** The study of growing garden plants

- (a) horticulture (b) nomenclature  
(c) orchard (d) nursery

**162.** Scientific study of Earthquakes

- (a) Geography (b) Astrology  
(c) Seismology (d) Anthropology

**163.** Gradually advanced

- (a) evolved (b) advantaged  
(c) evaded (d) evolved

**164.** One who copies from other writers

- (a) Plagiarist (b) Contender  
(c) Offender (d) Antagonist

**165.** The belief that God is in everything, including nature.

- (a) Polytheism (b) Pantheism  
(c) Naturalism (d) Mysticism

**Directions :** Read the passage carefully and choose the best answer to each question out of the four alternatives and mark it in the Answer Sheet.

**Passage (Five Questions)**

The destructive process of Mountain Top Removal mining (MTR) has caused permanent damage to Appalachia. Although the law requires that mining companies restore the mountaintops after the mining has been completed, the 1.5 million acres of mountains that have already been removed cannot be re—grown, re—built, or replaced. The companies do secure the rock formations to prevent erosion and

landslides, but their efforts cannot recreate the once beautiful mountain landscape. Furthermore, while companies are usually vigilant about securing the rock formations, they seem less interested in restoring the native vegetation. MTR operations clear enormous tracts of forest. Environmental hazards are not only created in preparing a mountaintop for mining, they also continue once the coal has been extracted. After the blast, the excess mountaintop — which miners refer to as "overburden" — is usually dumped into nearby valleys or streams. The overburden contains a variety of toxic substances, including explosive residue, silica and coal dust.

- 166.** After the MTR operation, the mining companies
- (a) beautify the mountains.
  - (b) restore native vegetation.
  - (c) replace the mountaintops.
  - (d) secure rock formations to prevent erosion.
- 167.** MTR operations cause environmental hazards because
- (a) it causes landslides
  - (b) it destroys natural vegetation
  - (c) it causes explosion.
  - (d) mountaintops dumped in valleys & streams contain toxic substance.
- 168.** In the Appalachian region MTR has caused
- (a) widespread damage
  - (b) permanent beautification
  - (c) landslides
  - (d) floods
- 169.** The term "overburden" means
- (a) excess mountaintop left after the extraction of coal through the blast.
  - (b) weeds planted by mining companies.
  - (c) debris from landslides.
  - (d) remnants of natural forests.
- 170.** The word opposite in meaning to "Vigilant" is
- (a) lenient
  - (b) displeased
  - (c) annoyed
  - (d) careless

**Directions :** In the following **Five** Questions, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

- 171.** Synopsis
- (a) discussion
  - (b) report
  - (c) preview
  - (d) summary
- 172.** Conjecture
- (a) gathering
  - (b) critic
  - (c) guess
  - (d) strife
- 173.** Brazen
- (a) modest
  - (b) trashy
  - (c) shameless
  - (d) melodramatic
- 174.** Jinx
- (a) tour
  - (b) juncture
  - (c) taunt
  - (d) spell
- 175.** Contentious
- (a) precious
  - (b) extravagant

- (c) benevolent
- (d) controversial

**Directions :** In the following **Five** Questions, four alternatives are given for the Idiom \Phrase underlined. Choose the alternative which best expresses the meaning of the Idiom \Phrase and mark it in the Answer Sheet.

- 176.** A hornet's nest.
- (a) a dilemma
  - (b) an unpleasant situation
  - (c) among thorns
  - (d) a comfortable position
- 177.** To have an axe to grind.
- (a) To work for both sides
  - (b) To have a selfish end to serve
  - (c) To criticize someone
  - (d) To fail to arouse interest
- 178.** Have a foot in the grave.
- (a) be close to death.
  - (b) have an incurable disease.
  - (c) be afraid to die.
  - (d) have no interest in life.
- 179.** To put his foot down.
- (a) Withdraw
  - (b) Concede
  - (c) Not to yield
  - (d) Resign
- 180.** To roll out the red carpet.
- (a) to buy a gift
  - (b) to decorate the room
  - (c) to give a grand welcome
  - (d) to give a warning signal

**Directions :** In the following **Five** Questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the circle corresponding to the appropriate option. If a sentence is free from error, blacken the circle corresponding to 'No Error' in the Answer Sheet. 181.

- 181.** The car that he is using these days is belonging to his employer.
- (a) No error
  - (b) these days is belonging
  - (c) to his employer.
  - (d) The car that he is using
- 182.** Three years have elapsed since I had gone to visit my aunt in the city.
- (a) since I had gone to
  - (b) No error
  - (c) visit my aunt in the city.
  - (d) Three years have elapsed
- 183.** He needs not have shouted at me that way.
- (a) at me that way.
  - (b) No error
  - (c) not have shouted
  - (d) He needs
- 184.** I reached two hours before he had came.
- (a) two hours before
  - (b) I reached
  - (c) he had came.
  - (d) No error
- 185.** He assured me that he will return in an hour.
- (a) He assured me
  - (b) No error
  - (c) in an hour.
  - (d) that he will return

**Directions :** In the following **Five** Questions, a sentence/a part of the 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 required, choose "No Improvement" option.

**186.** I contradicted against him.

- (a) No improvement (b) contradicted  
(c) contradicted over (d) contradicted with

**187.** Try to lower the amount of fat in your diet.

- (a) Cut (b) No improvement  
(c) Reduce (d) Lose

**188.** You must accustom yourself with new ideas.

- (a) get accustom to (b) No improvement  
(c) accustomed yourself with (d) accustom yourself to

**189.** You should cut off on the amount of cigarettes you smoke.

- (a) cut down (b) cut out  
(c) cut up (d) No improvement

**190.** No sooner than it stopped raining, the children went out.

- (a) did it stop raining than  
(b) had it stopped raining than  
(c) did it stopped raining than  
(d) No improvement

**Directions :** In the following Five Questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.

**191.** Find the correctly spelt word.

- (a) Confinment (b) Consignment  
(c) Conceilment (d) Conteinment

**192.** Find the correctly spelt word.

- (a) Hyegienic (b) Hygeinic

- (c) Hygeinic (d) Hygienic

**193.** Find the correctly spelt word.

- (a) Dastitution (b) Divienation  
(c) Divarsion (d) Dysfunction

**194.** Find the correctly spelt word

- (a) Hillarious (b) Congrruous  
(C) Audacious (d) Auspicious

**195.** Find the correctly spelt word.

- (a) Obeisence (b) Perservarance  
(c) Surveillance (d) Turbulance

**Directions :** In the following **Five** Questions, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

**196.** Misanthropist

- (a) philanthropist (b) zealot  
(c) pedant (d) pragmatist

**197.** Ostracize

- (a) discard (b) shun  
(c) patronize (d) crucify

**198.** Abstain

- (a) repel (b) disgrace  
(c) dismiss (d) indulge

**199.** Unapproachable

- (a) casual (b) withdrawn  
(c) accessible (d) unclear

**200.** Fortify

- (a) intensify (b) strengthen  
(c) undermine (d) support

**Answer Key**

Qns.	Ans.								
1	d	41	b	81	a	121	d	161	a
2	b	42	a	82	c	122	b	162	c
3	d	43	b	83	a	123	d	163	a
4	d	44	a	84	c	124	a	164	a
5	d	45	a	85	d	125	d	165	b
6	a	46	c	86	b	126	c	166	d
7	a	47	b	87	c	127	b	167	d
8	d	48	a	88	d	128	a	168	a
9	c	49	b	89	d	129	a	169	a
10	d	50	b	90	b	130	c	170	d
11	b	51	a	91	a	131	b	171	d
12	b	52	a	92	a	132	a	172	c
13	b	53	c	93	c	133	b	173	c
14	c	54	a	94	a	134	b	174	d
15	d	55	b	95	d	135	b	175	d
16	c	56	a	96	c	136	d	176	b
17	d	57	b	97	d	137	d	177	b
18	d	58	a	98	b	138	a	178	a

19	c	59	b	99	d	139	d	179	a
20	d	60	c	100	a	140	b	180	c
21	c	61	a	101	a	141	a	181	b
22	d	62	b	102	d	142	b	182	a
23	c	63	a	103	b	143	b	183	d
24	d	64	a	104	d	144	d	184	c
25	a	65	c	105	d	145	a	185	d
26	d	66	c	106	d	146	c	186	b
27	a	67	a	107	a	147	b	187	c
28	b	68	c	108	d	148	d	188	d
29	b	69	a	109	d	149	a	189	a
30	b	70	c	110	b	150	c	190	a
31	c	71	d	111	b	151	d	191	b
32	a	72	b	112	c	152	d	192	d
33	a	73	d	113	a	153	d	193	d
34	b	74	c	114	d	154	c	194	c
35	a	75	*	115	c	155	b	195	c
36	c	76	c	116	d	156	c	196	a
37	a	77	a	117	b	157	a	197	c
38	b	78	d	118	b	158	c	198	d
39	d	79	a	119	d	159	b	199	c
40	d	80	a	120	b	160	d	200	c

**Solutions:**

- (d); 7, is common in Triangle & Rectangle.
- (b); statement I and also statement II sufficient to.
- (d); +2, -2, +2, -2 series.
- (d); C = 24, D = 23
- (c);  $\rightarrow 6^2 + 7, 7^2 + 8, 10^2 + 11, 11^2 + 12 \rightarrow 133$
- (c);  $\rightarrow$  square, rectangle & rhombus are all parallelograms.
- (d); Approx  $\rightarrow 52$
- (d);  $5^2 + 5 = 130, 4^3 + 4 = 68, 3^3 + 3 = 30$
- (a);  $324 \rightarrow 18^2, 19^2 \rightarrow 361 = 361 - 324 = 37$
- (b);  $(8/16) \times 6 = \frac{1}{2} \times 6 = 3$
- (b);  $A > C > D > E > B$ .
- (c); 14, 28, 42, 56 add up in series.
- (a); +2, -2, sequence.

106. (d);  $x + y = \frac{46}{3}$   
 $x - y = \frac{14}{3} \Rightarrow x \times y = 10 \times \frac{16}{3} = \frac{160}{3} = 53 \frac{1}{3}$

107. (a);  $\frac{\pi r^2 h}{\frac{4}{3} \pi r^3} = \frac{30 \times 30 \times 40 \times 3}{4 \times 1 \times 1 \times 1} = 27000$

108. (d);  $\frac{120}{100} \times \frac{100}{90} \times x = 1200$   
 $x = 1600$

109. (d);  $\sin^2 2 + \sin^2 4 + \sin^2 6 + \dots + \sin^2 89 + \sin^2 90$   
 $\Rightarrow 22 \frac{1}{2} + \frac{1}{2} = 23$

110. (b); Avg. =  $\frac{(80 + 40 + 90 + 70 + 70)}{5} = \frac{350}{5} = 70$

111. (b);

112. (c);  $(40 + 90 + 70) : (100 + 50 + 80) = 20 : 23$

113. (a);

114. (d); Put  $x = 3, y = 1$  we get the value of expression. = 0

115. (c); Put,  $a=b=c=d=e=f \Rightarrow 1$ , Only option C. Satisfy the expression

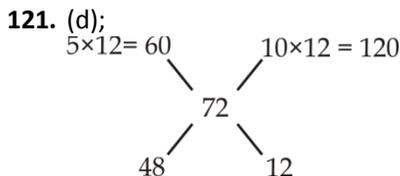
116. (d); Successive of 15,  $-25 = -13.75\%$   
 $13.75\% \times x = 22$   
 $x = 160$

117. (b); 4 times itself in 4 year

118. (b);  $x = (1 + \sqrt{2}) + \sqrt{3}$   
 $\Rightarrow x^2 = 6 + 2\sqrt{2} + 2\sqrt{3} + 2\sqrt{6}$   
 $y = (1 + \sqrt{2}) - \sqrt{3} \Rightarrow y^2 = 6 + 2\sqrt{2} - 2\sqrt{3} - 2\sqrt{6}$   
 $\Rightarrow x \cdot y = [(1 + \sqrt{2}) + \sqrt{3}][(1 + \sqrt{2}) - \sqrt{3}] = 2\sqrt{3}$   
 $\Rightarrow x + y = 2(1 + \sqrt{2})$   
 $\Rightarrow \frac{x^2 + 4xy + y^2}{x + y} = 6$

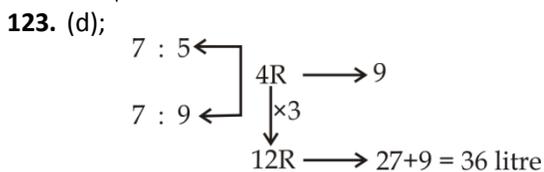
119. (d);

120. (b); Income of A =  $(15050 + 15350 + 15200) - 15350 \times 2 = 14900$



So, distance travelled by foot is = 48 Km

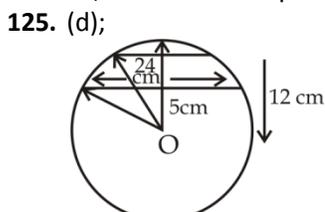
122. (b);  $\tan\theta + \sin\theta = m$  (i)  
 $\tan\theta - \sin\theta = n$  (ii)  
 solve both eq.  $\Rightarrow 2\tan\theta = (m + n), 2\sin\theta = (m - n)$   
 $(m^2 - n^2) = 4 \cdot \tan\theta \cdot \sin\theta$   
 $= 4\sqrt{m \cdot n}$



124. (a);  $\tan\theta + \sec\theta = 2$   
 By using options -  
 Put,  $\tan\theta = \frac{3}{4}$ , the triplet 3, 4, & 5.

So,  $\tan\theta + \sec\theta = \frac{3}{4} + \frac{5}{4} = \frac{8}{4} = 2$

So, satisfied the expression.



$12^2 + 5^2 = 169 = 13^2$

So, radius = 13 cm

$\Rightarrow 13^2 - 12^2 = 25$

= 5cm

So, the length of chord

=  $5 \times 2 = 10$  cm

126. (c);  $3^{x+y} = 3^4$   
 $x + y = 4$  .....(i)  
 $81^{x-y} = 3^1$   
 $(3^4)^{x-y} = 3^1$   
 $4x - 4y = 1$  .....(ii)

$x = \frac{17}{8}$

$y = \frac{15}{8}$

$\frac{x}{y} = \frac{17}{15}$

127. (b); Food  $\rightarrow 40\%$

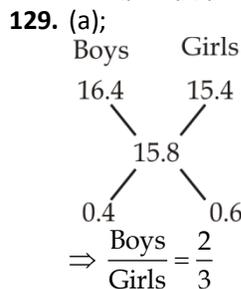
House rent  $\rightarrow \frac{20\%}{60\%}$

Remaining = 40%

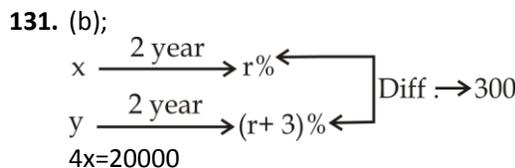
Thin 70% of 40 = 28%

So, total remaining income = 12%.

128. (a);  $(p - q)^3 + (q - r)^3 + (r - p)^3 = ?$   
 $a^3 + b^3 + c^3 = 3abc$ , From using property  
 $\Rightarrow 3(p - q)(q - r)(r - p)$

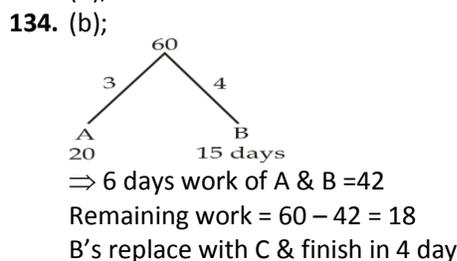


130. (c);  $\left(\frac{AP}{PB + PA}\right)^2 = \frac{\text{Area of } \Delta APQ}{\text{Area of } \Delta ABC} = \left(\frac{3}{2+3}\right)^2 = 9 : 25$



132. (a); C.P. : S.P. : MRP  
 10 : 9  
 $3 \times (3 : 4)$   
 $\Rightarrow 10 : 9 : 12$   
 Profit =  $\frac{2}{10} \times 100 = 20\%$  profit

133. (b);



$\Rightarrow 6$  days work of A & B = 42

Remaining work =  $60 - 42 = 18$

B's replace with C & finish in 4 day

4 days =  $\frac{18}{(3+x)}$

$x = \frac{18 - 12}{4} = \frac{6}{4} = \frac{3}{2}$

So, c alone work =  $\frac{60}{3} \times 2 = 40$  days

135. (b);

136. (d); put A = 45°  
 The value of expression = 1

137. (d);  $(\sqrt{6} + \sqrt{10} - \sqrt{21} - \sqrt{35}) \cdot (\sqrt{6} - \sqrt{10} + \sqrt{21} - \sqrt{35})$

⇒ after solving this it is approx. 10

138. (a); ⇒ let C.P. = 100/-

M.P. = 120/-

10% discount = 12%/-

= 120 - 12

= 108

So, gain% = 8

139. (d);

140. (b); ∠ BOC = 108°

Then

∠ BPO = 180 - (54 + 90)

= 36°

So, ∠ BDC = 72°

141. (a);  $\frac{x^4 + 3x^3 + 5x^2 + 3x + 1}{x^4 + 1} = \frac{\left(x^2 + \frac{1}{x^2}\right) + 3\left(x + \frac{1}{x}\right) + 5}{\left(x^2 + \frac{1}{x^2}\right)}$

$\frac{7 + 9 + 5}{7} = 3$

142. (b);

143. (b); ⇒  $\frac{23}{16} = a + \frac{1}{b + \frac{1}{c + \frac{1}{2}}}$

$1 + \frac{7}{16} = a + \frac{1}{b + \frac{1}{c + \frac{1}{2}}}$

⇒ a = 1

$\frac{16}{7} = b + \frac{1}{c + \frac{1}{2}}$

b = 2

c + 1/2 = 7/2

c = 3

so, a + b + c = 6

144. (d);

145. (a);  $s = \frac{7 + 8 + 9}{2} = 12$

$\Delta = \sqrt{12(12-7)(12-8)(12-9)}$

=  $12\sqrt{5}$

146. (c);  $\frac{r_1}{r_2} = \frac{2}{1}$  &  $\frac{h_1}{h_2} = \frac{3}{2} \Rightarrow \frac{V_1}{V_2} = \frac{r_1^2 h_1}{r_2^2 h_2}$

$\frac{V_1}{V_2} = \frac{4 \times 3}{1 \times 2} = \frac{6}{1}$

147. (b);  $\frac{\pi r^2 h_1}{\frac{1}{3} \pi r^2 h_2} = 1 \Rightarrow \frac{h_1}{h_2} = \frac{1}{3}$

148. (d);

149. (a);  $\frac{a^3 + b^3}{(a^2 - ab + b^2)} = a + b = (0.013 + 0.007) = 0.02$

150. (c);  $(4m + 6w)8 = (3m + 7w)10$

1m = 11w

10w × ? = (6w + 44w) × 8

? =  $\frac{50 \times 8}{10} = 40$  days

151. (d); Heedless of consequences = careless of results (paying little heed)

152. (d); Loose – not finally or tightly fixed in place

153. (d); complement – a thing that contributes extra features to something else in a way to complete it.

154. (c);

155. (b); Vocation – occupation (trade)

156. (c); thrive – advance, prosper, flourish

163. (a); evolved – develop gradually

172. (c); conjecture – speculation, guess, fancy

173. (c); Brazen – without shame, immodest

174. (d); Jinx – a person or thing that bring bad luck spell, curse

181. (b); 'These days belongs to'

182. (a); Present perfect + since + past indefinite (Since I went to visit. My aunt in the city)

183. (d); Need represent helping verb here (like does, do, is, am, are) subject + helping verb + main verb + object)

184. (c); use before he came.

185. (d); Indirect tense (incident of past) replace 'will' with 'would'.

189. (a); cut down – to reduce

190. (a); No sooner + helping verb + subject + .....

196. (a); Misanthropist – who hates mankind  
Philanthropist – who loves mankind.

197. (c); Ostracize – excluded from a group, shun, reject  
Patronize – to support or sponsor

198. (d); Abstain - to keep from something  
Indulge to involve in something

199. (c); Unapproachable – Recess (difficult to access)  
Accessible – easy to access

200. (c); Fortify – to strengthen,  
Undermine – to weaken

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which of the suggested courses of action logically follows for pursuing. Given answer

- (a) if only Course of action I follows.
- (b) if only Course of action II follows.
- (c) if either Course of action I or Course of action II follows.
- (d) if neither Course of action I nor Course of action II follows.
- (e) if both courses of action I and II follow.

**11. Statement:** 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.

**Course 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.

- (a) Only I and II follow
- (b) Only II and III follow
- (c) Only I and III follow
- (d) All follow
- (e) None of these

**12. Statement:** Without the active cooperation between the proprietor and the employees of the mill, it cannot remain a profitable concern for long.

**Course of Action:**

**I.** The mill should be closed down.

**II.** The workers should be asked to cooperate with the owners.

**III.** The owners should be asked to cooperate with the employees.

- (a) None follows
- (b) Only I and II follow
- (c) All follow
- (d) Only II and III follow
- (e) None of these

**13. Statement:** The air and rail services have been severely disrupted due to thick fog in the northern part of the country.

**Course of Action:**

**I.** The rail and air services should be temporarily suspended in the region.

**II.** People should be advised to make their travel plan keeping in mind the probable disruption resulting in delay or cancellation of services.

**III.** The government should immediately install modern machines which will enable it to guide the rail and air services even if the thick fog develops.

- (a) Only II follows
- (b) Only III follows
- (c) Only II and III follow
- (d) All follow
- (e) None of these

**14. Statement:** There are more than 200 villages in the hill area of Uttar Pradesh which are severely damaged due to cyclone and it causes an extra burden of Rs 200 crore on State Government for relief and rehabilitation work.

**Course of Action:**

**I.** People of hill area should be shifted to other safer places.

**II.** State Government should ask more financial support from Central Government.

**III.** Government should levy relief tax to the corporate sector to ease the additional burden.

- (a) None follows
- (b) Only I and II follow
- (c) Only II and III follow
- (d) Only I and III follow
- (e) None of these

**15. Statement:** Any further increase in the pollution level in the city by way of industrial effluents and automobile exhaustions would pose a severe threat to the inhabitants.

**Course of Action:**

**I.** All the factories in the city should immediately be closed down.

**II.** The automobiles should not be allowed to ply on the road for more than four hours a day.

**III.** The Government should restrict the issue of fresh licenses to factories and automobiles.

- (a) None follows
- (b) Only II follows
- (c) Only III follows
- (d) All follows
- (e) None of these

**Directions (16-20):** Study the following information to answer the given questions.

There are eight captains of IPL team namely Raina, Dhoni, Kohli, Duminy, Miller, Gambhir, Warner and Rohit sitting around a circular table, facing the centre but not necessarily in the same order. Each of them is from a different IPL team, viz. Delhi Daredevils, Kings XI Punjab, Royal Challengers Bangalore, Kolkata Knight Riders, Sun Risers Hyderabad, Mumbai Indians, Gujrat Lions and Rising Pune Warriors.

Kohli and Miller are immediate neighbour of each other. Neither Kohli nor Miller is an immediate neighbour of either Dhoni or the captain of Mumbai Indians. The captain of Gujrat Lions sits second to right of Duminy, who is the captain neither of Mumbai Indians nor of Sun Risers Hyderabad. Gambhir sits second to the right of the captain of Mumbai Indians. The captain of Sun Risers Hyderabad is an immediate neighbour of the captain of Mumbai Indians. Two people sit between the captain of Sun Risers Hyderabad and Dhoni, when counted in anticlockwise from Dhoni. Warner and the captain of Kolkata Knight Riders are immediate neighbours of each other. Dhoni is not the captain of Kolkata Knight Riders. Only one person sits between Kohli and the captain of Delhi Daredevils, when

counted in anticlockwise from Kohli. Rohit sits third to the left of the captain of Royal Challengers Bangalore. The captain of Kings XI Punjab sits second to the left of the captain of Rising Pune Warriors.

16. Who among the following sit exactly between Dhoni and the captain of Sun Risers Hyderabad?
- Raina and the captain of Gujrat Lions
  - Kohli and Miller
  - Rohit and Raina
  - Kohli and the captain of Kolkata Knight Riders
  - Warner and Gambhir
17. Who among the following is the captain of Delhi Daredevils?
- Kohli
  - Duminy
  - Miller
  - Gambhir
  - Warner
18. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which is the one that does not belong to that group?
- Rohit-Captain of Mumbai Indians
  - Dhoni-Captain of Rising Pune Warriors
  - Kohli-Captain of Royal Challengers Bangalore
  - Warner-Captain of Gujrat Lions
  - Duminy-Captain of Delhi Daredevils
19. Who among the following sits second to the left of the captain of Gujrat Lions?
- Duminy
  - Captain of Delhi Daredevils
  - Miller
  - Both a) and b)
  - Captain of Royal Challengers Bangalore
20. Which of these statements is/are correct?
- Miller is the captain of Kings XI Punjab.
  - Kohli is the captain of Royal Challengers Bangalore.
  - Warner is the captain of Sun Risers Hyderabad.
  - All a), b) and c)
  - None of these

**Directions (21-25):** Study the following information carefully to answer the given questions.

Eight person from different countries viz.. USA, India, UK, Australia, China, Nepal, Switzerland and Russia are sitting in two parallel rows containing four people each, in such a way that there is an equal distance between adjacent persons. In row-1 Michael Jackson, Lady Gaga, Justin Bieber and Jennifer Aniston are seated and all of them are facing south. In row-2 Johnny Deep, Will Smith, Katy Perry and Beyonce are seated and all of them are facing north. Therefore, in the given sitting arrangement each member seated in a row faces another member of the other row. (All the information given above does not necessarily represent the order of seating as in the final arrangement). Justin Bieber sits second to the right of the person from Russia. Katy Perry is an immediate neighbor of the person who faces the person from Russia. Only one person sits between Katy Perry and

the person from UK. Immediate neighbor of the person from UK faces the person from Switzerland. The person from USA faces the person from China. Katy Perry is not from China. Johnny Depp is not from UK. Johnny Depp does not face the person from Russia. Will Smith faces the person from Australia. The one who faces Beyonce sits to the immediate left of Michael Jackson. Lady Gaga does not sit at any of the extreme end of the line. The person from Russia does not face the person from India.

21. Which of the following is **true** regarding Michael Jackson?
- The person from USA faces Michael Jackson.
  - The person from Russia is an immediate neighbour of Michael Jackson.
  - Michael Jackson faces the person who sits second to the right of Katy Perry
  - Michael Jackson is from China
  - Michael Jackson sits at one of the extreme ends of the line
22. Who is seated between Katy Perry and the person from UK ?
- The person from China
  - Johnny Depp
  - Will Smith
  - The person from India
  - Beyonce
23. Who amongst the following sit at extreme ends of the rows?
- Jennifer Aniston and the person from UK
  - The person from Nepal and USA
  - The person from Australia and Johnny Depp
  - The person from India and Jennifer Aniston
  - Justin Bieber, Will Smith
24. Who amongst the following faces the person from Russia?
- The person from Nepal
  - Johnny Depp
  - Katy Perry
  - The person from India
  - The person from Switzerland
25. Johnny Depp is related to Australia in the same way as Lady Gaga is related to UK based on the given arrangement. To who amongst the following is Jennifer Aniston related to, following the same pattern?
- India
  - Switzerland
  - Russia
  - Nepal
  - China

**Directions(26-30):**

26. According to budget 2016-17, 28.5 lakh hectares will be brought under irrigation under Pradhan Mantri Krishi sinchai Yojana. What will be the effect of above announcement?
- The government increase the food production of our country.
  - By increase irrigation programme, the farmer can increase their income.

- (c) Agriculture sector will boost by this step at particular significance improvement  
 (d) All may be effect  
 (e) None of these
27. Targeted Delivery of Government subsidies and benefits to ensure that they reach the poor and the deserving. What will be the cause of above government budget?  
 (a) Some portion are until untouched from new subsidies and other scheme.  
 (b) Some urban sector can get subsidy scheme profit.  
 (c) DBT ensures related information about the poor people for subsidies.  
 (d) The transparency and clearance will be increased.  
 (e) None of these
28. Finance minister announced the fiscal deficit target of 3.5% of GDP in 2016-17 which is less than previous year. What will be the possible cause behind this less fiscal deficit?  
 (a) Due to economy decline, the government collect higher taxes.  
 (b) Due to Indian rupees positive growth against dollar, the deficit decrease.  
 (c) Government announced new taxes scheme and e-scheme by which deficit of revenue decrease.  
 (d) Indian economy boost by FDI and investment policies and it collect higher export collection.  
 (e) All except a.
29. Oil prices dropped on Wednesday in the wake of industry, data that showed a huge build in U.S. crude stockpiles. What will be the possible cause behind this oil result?  
 (a) The price value of U.S. dollar in international market increase.  
 (b) The global over supply is increasing oil stockpiles.  
 (c) The demand for fuel decline in this time period.  
 (d) All are being possible cause  
 (e) Only b and c
30. The U.S. Greenhouse gas emission rates increase with 0.2% in comparison with last year. What will be possible effect of above phenomena?  
 (a) Increase in Co<sub>2</sub> levels have made the world's oceans 30% more acidic.  
 (b) Co<sub>2</sub> and other gases will be higher amounts in the air and it effect the growth and nutrition in plants.  
 (c) The U.S. government banned old industries which gives bad effect on environment.  
 (d) All a, b, c  
 (e) None of these

**Directions (31-34):** A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input :** trap 33 god 12 81 57 lord mold 62 slap

**Step I :** god trap 33 12 57 lord mold 62 slap 81

**Step II :** lord god trap 33 12 57 mold slap 81 62

**Step III :** mold lord god trap 33 12 slap 81 62 57

**Step IV :** slap mold lord god trap 12 81 62 57 33

**Step V :** trap slap mold lord god 81 62 57 33 12

And step V is the last step of the arrangement.

As per the above rule followed in the above steps, find out in each of the following questions the appropriate step for the input given below;

**Input : 41 kite work 17 75 volve book tree 23 alert 93 49**

31. How many steps would be needed to complete the arrangement?  
 (a) IV (b) V (c) VI  
 (d) VII (e) None of these
32. Which Step number would be the following output?  
 Tree kite book alert work 17 volve 23 93 75 49 41  
 (a) III (b) II (c) VII  
 (d) IV (e) There will be no such step
33. Which of the following would be the step I?  
 (a) alert 41 book work 17 volve tree 23 49 93 75  
 (b) alert book 17 work 41 volve tree 49 93 75 23  
 (c) alert 41 kite work 17 75 volve book tree 23 93 49  
 (d) alert 41 kite work 75 17 book tree 49 23 93  
 (e) None of these
34. In step V, which of the following word/number would be on the 6<sup>th</sup> position (from the right)?  
 (a) 93 (b) 17 (c) 23  
 (d) work (e) alert
35. Five friends A, B, C, D and E are standing in a row facing South but not necessarily in the same order. Only B is between A and E, C is immediate right to E and D is immediate left to A. On the basis of above information, which of the following statement is definitely true?  
 (a) B is to the right of E  
 (b) A is second to the left of C.  
 (c) D is third to the left of E  
 (d) D is third to the left of B  
 (e) None of these

**Directions (36-40):** Each of the questions below consists of a question and two statements labeled I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give your answer accordingly:

(a) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

(b) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

(c) If the data in statement I alone or in statement II alone are sufficient to answer the question.

(d) If the data in both the statements I and II together are not sufficient to answer the question.

(e) If the data in both the statements I and II together are necessary to answer the question

**36.** How many students in standard V of our school do not play chess?

I. No girl has interest in chess.

II. In standard V, there are 40 boys.

**37.** How old is Tomar?

I. Tomar could not appear for the final exams because he was short by two months for the stipulated 18 years of age in January this year.

II. He will become eligible for casting his vote, where minimum age limit is 18, in March this year.

**38.** Jai ranks 10<sup>th</sup> in the class. How many students are there in the class?

I. His class-friend got 58<sup>th</sup> rank which is the last.

II. Jai's rank from the last (other end) is 49<sup>th</sup>.

**39.** How many brothers does Ramu have?

I. Ramu's father has three children.

II. Ramu has two sisters.

**40.** Lal is taller than Nand, Jim is taller than Harry. Who among them is the tallest?

I. Jim is taller than Nand. II. Lal is taller than Harry.

**Directions (41-45):** In each of the following questions a statement is followed by two assumptions numbered I and II. An assumption is something that is supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement. Give answer:

(a) if only assumption I is implicit.

(b) if only assumption II is implicit.

(c) if either assumption I or II is implicit.

(d) if neither assumption I nor II is implicit.

(e) if both assumptions I and II are implicit.

**41. Statement:** Please note that the company will provide accommodation to only outside candidates if selected.' - A condition in an advertisement.

**Assumptions:** I. The local candidates would be having some other arrangement for their stay.

II. The company plans to select only local candidates.

**42. Statement:** Cases of food poisoning due to consumption of liquor are increasing in rural areas.

**Assumptions:** I. Percentage of people consuming liquor is more in rural areas.

II. There are many unauthorized spurious liquor shops in the rural areas.

**43. Statement:** Lack of stimulation in the first four or five years of life can have adverse consequences.

**Assumptions:**

I. A great part of the development of observed intelligence occurs in the earliest years of life.

II. 50 percent of the measurable intelligence at age of 17 is already predictable by the age of four.

**44. Statement:** The X-Airlines has decided to increase the passenger fare by 15 percent with immediate effect.

**Assumptions:**

I. The demand for seats of X-Airlines may remain unchanged even after the hike of fare.

II. Other airline companies may also hike the passenger fares.

**45. Statement:** Shalini made an application to the bank for a loan of Rs. 1,80,000 by mortgaging her house to the bank and promised to repay it within five years.

**Assumptions:**

I. The bank has a practice of granting loans for Rs.1,00,000 and above.

II. The bank accepts house as collateral security against such loans.

**Directions (46-50):** Read the following information and answer the questions given below—

Seven managers Shukla, Mishra, Singh, Kulkarni, Rao, Joshi and Nair are to conduct interviews simultaneously either alone or in pairs at four different locations—Surat, Chandigarh, Delhi and Lucknow. Only one wants to travel by rail, two prefer travelling by car and the rest travel by air.

(i) Shukla is going to Lucknow but neither by car nor by air.

(ii) Mishra prefers to travel by car.

(iii) Neither Joshi nor Nair is going to Delhi.

(iv) Person going to Surat travel by road.

(v) Kulkarni will assist his friend Mishra.

(vi) The two managers who go to Delhi travel by air.

**46.** Where will Kulkarni conduct the interviews ?

(a) Surat

(b) Lucknow

(c) Chandigarh

(d) Cannot be determined

(e) None of these

**47.** Who goes to Delhi ?

(a) Mishra-Kulkarni

(b) Rao-Singh

(c) Kulkarni-Joshi

(d) Data inadequate

(e) None of these

**48.** Which of the following is true ?

(a) Kulkarni travels by air

(b) Nair will assist Rao

(c) Shukla conducts interviews alone

(d) Joshi goes to Chandigarh

(e) None of these

**49.** Who will conduct interviews at Chandigarh ?

(a) Nair

(b) Singh

(c) Rao

- (d) Data inadequate (e) None of these  
 50. Which of the following pairs is different from the other four with regard to mode of travel ?

- (a) Shukla-Mishra (b) Rao-Mishra (c) Nair-Rao  
 (d) Kulkarni-Joshi (e) Shukla-Singh

**Maths**

**Directions (51-55):** In each question below, a number series is given in which one number is wrong. Find out the wrong number.

51. 484 240 120 57 26.5 11.25 3.625  
 (1) 240 (2) 120 (3) 57  
 (4) 26.5 (5) 11.25
52. 3 5 13 43 176 891 5352  
 (1) 5 (2) 13 (3) 43  
 (4) 176 (5) 891
53. 6 7 16 41 90 154 292  
 (1) 7 (2) 16 (3) 41  
 (4) 90 (5) 154
54. 5 7 16 57 244 1245 7506  
 (1) 7 (2) 16 (3) 57  
 (4) 244 (5) 1245
55. 4 2.5 3.5 6.5 15.5 41.25 126.75  
 (1) 2.5 (2) 3.5 (3) 6.5  
 (4) 15.5 (5) 41.25

**Directions (56-60):** Following questions are followed by two statements, i.e., statement I and statement II. You have to decide if these statements are sufficient to conclusively answer the questions. Choose the best option from the options given below:

- (a) If statement I alone is sufficient to answer the question.  
 (b) If statement II alone is sufficient to answer the question.  
 (c) If statement I and statement II together are sufficient, but neither of the two alone is sufficient to answer the question.  
 (d) If either statement I or statement II alone is sufficient to answer the question.  
 (e) Both statements I and statement II are not sufficient to give the answer.
56. The length of a base of a triangle is 60 cm and one angle formed at base is  $60^\circ$ . What is the length of the shortest side of the triangle?  
 I. The other angle formed at base is  $45^\circ$ .  
 II. The sum of the length of the other two sides is 80 cm.
57. What is the maximum value of  $m/n$ ?  
 I.  $m$ ,  $m+n$  and  $m+2n$  are three sides of a triangle.  
 II.  $m$  and  $n$  both are positive.
58. ABC is triangle at  $\angle B = 90^\circ$ , what is the length of the side AC?  
 I.  $BD = DC$  and  $AE = EB$ . II.  $AD = 7$  cm and  $CE = 5$  cm.
59. Is  $N$  odd?  
 I.  $N$  is divisible by 3, 5, 7 and 9.  
 II.  $N$  is between 0 and 400.

60. What is price of pen?

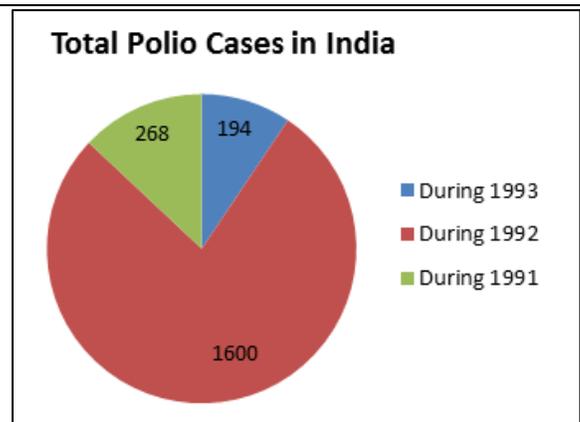
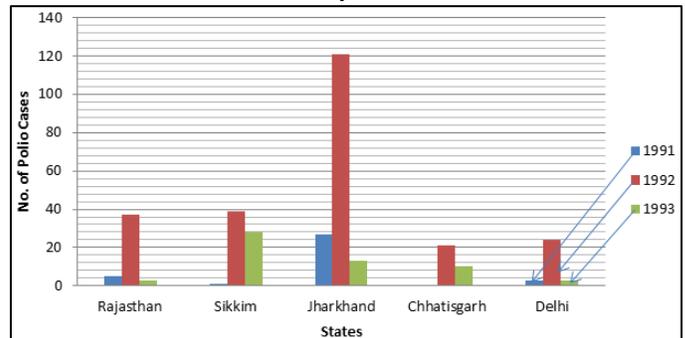
- I. Price of pencil is Rs. 5 more than pen.  
 II. Price of pencil is Rs. 5 less than the price of a marker which is 3 times pen.

**Directions (61-65):** 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.

- (1) if  $x > y$  (2) if  $x < y$   
 (3) if  $x \geq y$  (4) if  $x \leq y$   
 (5) if  $x = y$  or no relation can be established between 'x' and 'y'.
61. I.  $6x^2 - 19x + 15 = 0$  II.  $10y^2 - 29y + 21 = 0$   
 62. I.  $12x^2 + 11x - 56 = 0$  II.  $4y^2 - 15y + 14 = 0$   
 63. I.  $3x^2 + 13x + 12 = 0$  II.  $y^2 + 9y + 20 = 0$   
 64. I.  $8x^2 - 15x + 7 = 0$  II.  $2y^2 - 7y + 6 = 0$   
 65. I.  $7x - 3y = 13$  II.  $3x - 7y = -23$

**Directions (66-70):** Study the following diagrams carefully and answer the given questions.

**Polio cases reported from various states during the given years.**



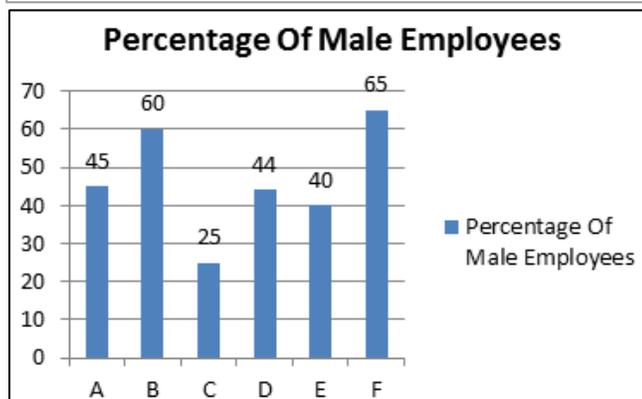
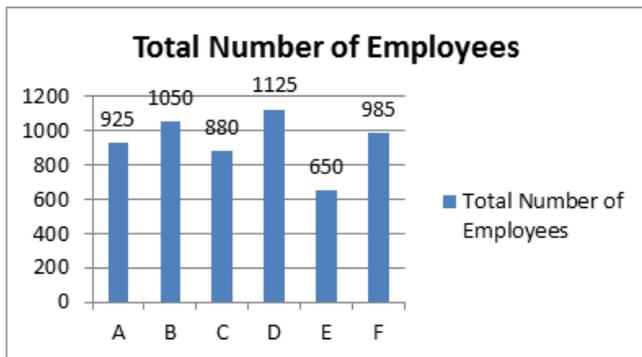
66. In which state the difference between polio cases in 1992 and 1993 is 11, and which had zero incidence in 1991?

- (1) Sikkim (2) Delhi (3) Chhattisgarh  
 (4) Rajasthan (5) Jharkhand

67. What is the difference between the average number of polio cases of the five given states in 1992 and that in 1993?  
 (1) 35 (2) 37 (3) 38  
 (4) 39 (5) None of these
68. Approximately what per cent of polio cases was reported in Jharkhand in 1992 with respect to total cases reported in India that year?  
 (1) 6% (2) 6.5% (3) 7%  
 (4) 7.5% (5) None of these
69. Polio cases in Rajasthan in 1993 and Jharkhand in 1991 together is what per cent of the polio cases in Delhi in 1992?  
 (1) 120% (2) 80% (3) 125%  
 (4) 75% (5) None of these
70. Find the ratio between the total no. of cases in the five given states to that in the rest of country in 1991.  
 (1) 9 : 67 (2) 2 : 29 (3) 29 : 4  
 (4) 9 : 58 (5) None of these

**Directions (71-75):** Study the following Table and answer the questions given below.

**Total number of Employees in Different Companies and percentage of Male Employees in those companies.**

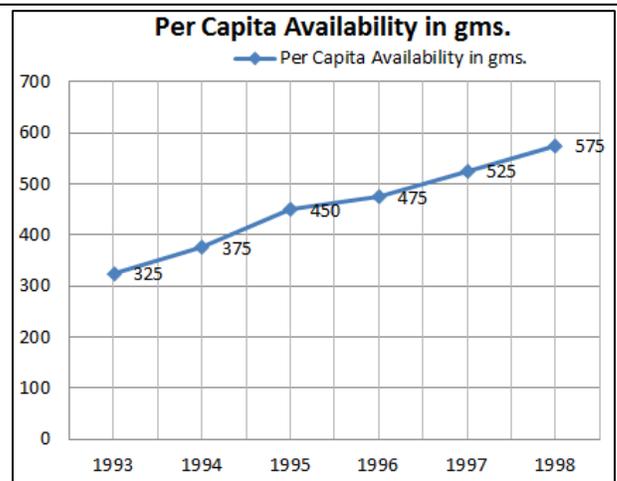
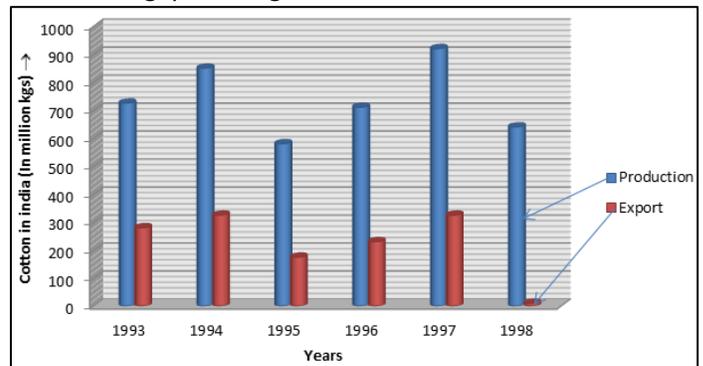


71. What is the respective ratio of the number of male employees of Company A and the number of female employees of Company E?

- (1) 115:104 (2) 111:104 (3) 104:111  
 (4) 104:115 (5) None of these

72. What is total number of male employees of company C and female employees of company D and E together?  
 (1) 1420 (2) 1240 (3) 1140  
 (4) 1000 (5) None of these
73. The total number of female employees of company B is approximately what percent of the total number of employees of company D?  
 (1) 73.33 (2) 37.34 (3) 47.34  
 (4) 65.3 (5) None of these
74. What is the total number of employees in all the companies together?  
 (1) 5165 (2) 5565 (3) 5600  
 (4) 5615 (5) None of these
75. What is the average number of female employees in all the companies together (approximately)?  
 (1) 930 (2) 625 (3) 490  
 (4) 110 (5) None of these

**Directions (76-80):** Study the following graph and answer the following question given below-



76. Which year shows the maximum percentage of exports with respect to production?  
 (1) 1996 (2) 1993 (3) 1994  
 (4) 1995 (5) None of these

77. The population of India in 1994 was  
 (1) 1400 millions (2) 1300 millions (3) 1500 millions  
 (4) 1200 millions (5) None of these
78. The average exports of the cotton produced over the period is-  
 (1) 350 millions (2) 320 millions (3) 360 millions  
 (4) 325 millions (5) None of these
79. What is the approximate average per capita availability of cotton over the years ?  
 (1) 380 grams (2) 415 grams (3) 480 grams  
 (4) 515 grams (5) 455grams
80. Exports over the year is approximate what percent of total production over the year ?  
 (1) 30% (2) 35% (3) 25%  
 (4) 40% (5) 45%
- Directions (81-85):** Study the information carefully to answer the questions that follow
- On the occasion of an opening ceremony of a sports events, in a stadium there are total of 600 players who are participating in four different events viz., Athletics, Table Tennis, Kho-Kho and Lawn Tennis. The ratio between male to female players is 11 : 4 respectively. 30% of the female players out of total female players are participating in athletics. 10% of female players out of total female players are participating in Table Tennis. The remaining female players are participating in Kho-Kho and Lawn Tennis in the ratio of 1 : 3 respectively. The ratio of male players who are participating in athletics and other events together is 3 : 5 respectively. 4% of those male players who are not participating in athletics are participating in Lawn Tennis. Remaining male players are participating in Table Tennis and Kho-Kho in the ratio of 5 : 3 respectively.
81. What is the ratio between the female players participating in Lawn Tennis to Table Tennis respectively?  
 (1) 9 : 5 (2) 4 : 7 (3) 7 : 4  
 (4) 9 : 2 (5) None of these
82. What is the difference between male players participating in Kho-Kho and female players participating in Lawn Tennis?  
 (1) 27 (2) 31 (3) 83  
 (4) 76 (5) None of these
83. What is the ratio between the male players participating in Lawn Tennis and female players participating in Table Tennis respectively?  
 (1) 11 : 72 (2) 11 : 38 (3) 11 : 16  
 (4) 16 : 13 (5) None of these
84. What is the total number of female players who are participating in athletics and Kho-Kho together?  
 (1) 68 (2) 72 (3) 58  
 (4) 67 (5) None of these
85. What is the total number of players (both males and females together) participating in Table Tennis and athletics together?  
 (1) 360 (2) 358 (3) 374  
 (4) 396 (5) None of these
86. The area of paper can be divided into 144 squares, but if the dimensions of each square were reduced by 2 cm each, then the number of squares so formed are 400. The area of the paper initially was:  
 (a) 544 cm<sup>2</sup> (b) 1444 cm<sup>2</sup> (c) 3600 cm<sup>2</sup>  
 (d) 2476 cm<sup>2</sup> (e) None of these
87. The average weight of all the 11 players of India cricket team is 50 kg. If the average of first six lightest weight players is 49 kg and that of the six heaviest players is 52 kg. The average weight of the player which lies in the sixth position in the list of players when all the 11 players are arranged in the order of increasing or decreasing weights :  
 (a) 56 kg (b) 52 kg (c) 51 kg  
 (d) 65 kg (e) None of these
88. The average weight of boys in a class is 30 kg and the average weight of girls in the same class is 20 kg. If the average weight of the whole class is 23.25 kg, what could be the possible strength of boys and girls respectively in the same class?  
 (a) 14 and 26 (b) 13 and 27 (c) 17 and 27  
 (d) 19 and 21 (e) None of these
89. 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 male to female in A, B and C was 4 : 3, 3 : 2 and 5 : 4 respectively. If the no. of female children working in the factories B and C be equal then find the no. of female children working in factory A :  
 (a) 5 (b) 2 (c) 8  
 (d) 6 (e) 12
90. A hotel incurs two type of expenses, one which is fixed and others depend upon no. of guests. When there are 10 guests, total expenses of hotel are Rs. 6000. Also when there are 25 guests average expenses per guests are Rs. 360? What is the total expenses of hotel when there are 40 guests?  
 (a) Rs. 8,000 (b) Rs. 12,000 (c) Rs. 15,500  
 (d) Rs. 16,000 (e) None of these
91. NDTV is a very popular TV channel. It telecasts the programmes from 8 : 00 a.m. to 12 : 00 p.m. It telecasts 60 advertisements each of 8 seconds and 16 advertisements each of 30 seconds. What is the percentage of time devoted in a day for the advertisements?  
 (a) 1.5% (b) 1.66% (c) 2%

- (d) 2.5% (e) 4.25%
92. The marked price of an article is increased by 25% and the selling price is increased by 16.66%, then the amount of profit doubles. If the original marked price be Rs. 400 which is greater than the corresponding cost price by 33.33%, what is the increased selling price?  
(a) 240 (b) 360 (c) 420  
(d) 600 (e) None of these
93. A and B are two partners and they have invested Rs. 54,000 and Rs. 90,000 in a business. After one year A received Rs. 1800 as his share of profit out of total profit of Rs. 3600 including his certain commission on total profit since he is a working partner and rest is received by B. What is the commission of A as a percentage of the total profit?  
(a) 20% (b) 10% (c) 5%  
(d) 25% (e) 36%
94. A property dealer bought a rectangular plot (of land) in Noida 5 years ago at the rate of Rs. 1000 per  $m^2$ . The cost of plot is increases by 5% in every 6 years and the worth of a rupee falls down at a rate of 2% in every 5 years. What is the approximate value of the land per  $m^2$  25 years hence?  
(a) Rs. 995 (b) Rs. 1134 (c) Rs. 1500  
(d) Rs. 1495 (e) Rs. 960
95. A bicycle can be purchased on cash payment of Rs. 1500. The same bicycle can also be purchased at the down payment (initial payment, at the time of purchasing) of Rs. 350 and rest can be paid in 3 equal installments of Rs. 400 for next 3 months. The rate of SI per annum charged by the dealer is :  
(a)  $23\frac{9}{17}\%$  (b)  $17\frac{9}{23}\%$  (c)  $13\frac{9}{17}\%$   
(d)  $17\frac{13}{23}\%$  (e) None of these
96. Kaushalya can do a work in 20 days, while Kaikeyi can do the same work in 25 days. They started the work jointly. Few days later Sumitra also joined them and thus all of them completed the whole work in 10 days. All of them were paid total Rs. 700. What is the share of Sumitra?  
(a) Rs.130 (b) Rs.185 (c) Rs.70  
(d) Rs.125 (e) Can't be determined
97. The speeds of Vimal and Kamal are 30 km/h and 40 km/h. Initially Kamal is at a place L and Vimal is at a place M. The distance between L and M is 650 km. Vimal started his journey 3 hours earlier than Kamal to meet each other. If they meet each other at a place P somewhere between L and M, then the distance between P and M is :  
(a) 220 km (b) 250 km (c) 330 km  
(d) 320 km (e) None of these
98. Anjali fires two bullets from the same place at an interval of 6 minutes but Bhagwat sitting in a car approaching the place of firing hears the second fire 5 minute 32 seconds after the first firing. What is the speed of car, if the speed of sound is 322 m/s?  
(a) 56 m/s (b) 102 m/s (c) 28 m/s  
(d) 32 m/s (e) 64 m/s
99. A rectangular water reservoir is 15 m by 12 m at the base. Water flows into it through a pipe whose cross-section is 5 cm by 3 cm at the rate of 16 m per second. Find the height to which the water will rise in the reservoir in 25 minutes :  
(a) 0.2 m (b) 2 cm (c) 0.5 m  
(d) 0.75 m (e) None of these
100. The internal dimensions of a tank are 12 dm, 8 dm and 5 dm. How many cubes each of edge 7 cm can be placed in the tank with faces parallel to the sides of the tank. Find also, how much space is left unoccupied?  
(a) 35 cubes;  $113 \text{ dm}^3$  (b) 1313 cubes;  $31.13 \text{ dm}^3$   
(c) 1309 cubes;  $31.013 \text{ dm}^3$  (d) 1309 cubes;  $13.31 \text{ dm}^3$   
(e) None of these

### English Language

**Directions (101-110):** Read the following passage carefully and answer the questions given below it. Certain words/phrases have been printed in bold to help you locate them while answering some of the questions.

With little control over the hardware used by Indian Internet users as well as the information that is carried through them, India's national security architecture faces a difficult task in cyberspace. India's infrastructure is **susceptible** to four kinds of digital intrusions: **espionage**, which involves intruding into systems to steal information of strategic or commercial value; cybercrime, referring to electronic fraud or other acts of serious criminal consequence; attacks, intended at disrupting

services or systems for a temporary period; and war, caused by a large-scale and systematic digital assault on India's critical installations.

Indian authorities have spent the lion's share of their resources tackling localised cybercrime while responding to major attacks on a case-by-case basis. Recognising the strategic dimensions of cyberspace, the Prime Minister's Office (PMO) created the position of the National Cyber Security Coordinator in 2014, a welcome first step. There is, however, no national security architecture today that can assess the nature of cyber threats and respond to them effectively. India's civilian institutions have their own

firefighting agencies, and the armed forces have their own insulated platforms to counter cyber attacks.

Unlike nuclear energy, a neat division between civilian and military use of cyberspace is difficult. Just as the Indian Army may face serious cyber attacks from non-state actors in Pakistan, the digital assets of a major Indian conglomerate — say, the Oil and Natural Gas Corporation — may be taken down by a military. The asymmetric character of digital warfare requires a multi-agency organisation that is technically equipped, but also bases its decision on sound strategy and regular policy inputs.

What could such an agency look like? The first requirement is to house it with permanent and semi-permanent staff that is technically proficient in cyber operations, both defensive and offensive. India faces a shortage of officers trained in creating and breaking encrypted platforms as well as using digital networks for intelligence gathering. Were such a National Cyber Security Agency (NCSA) to be created, it should have a functional “nucleus” or secretariat. The second requirement is to coordinate the agency’s policy functions and operations. The current cybersecurity policy, articulated in 2013 by the Ministry of Communications and Information Technology, is basically a statement of first principles. The NCSA should be guided by a document outlining India’s cyber strategy, much like its nuclear doctrine.

India currently has a top layer of agencies performing cyber operations — the National Technical Research Organisation, the National Intelligence Grid, and the National Information Board, to name a few — but there is also an additional layer of ministries performing governance functions. The Ministries of Defence, Home, External Affairs and IT should be part of a policy wing that provides their assessments of local and regional developments. India’s intelligence agencies should separately provide their consolidated inputs to aid the operations of the NCSA.

Last, India should not hesitate to build its offensive cyber capabilities. This would involve the development of software designed to intrude, intercept and exploit digital networks. The deployment of cyber weapons is not a low-cost affair, as the digital trail allows adversaries to track and possibly predict the development of future technologies. Nevertheless, a cyber arsenal serves the key function of strategic **deterrence**. India’s cyber command should be the primary agency responsible for the creation and deployment of such weapons.

Given the power entrusted in such an agency — as with India’s nuclear command, it would report to the PMO — it should have political or parliamentary oversight. In particular, the use of its capabilities against Indian citizens or domestic networks must be guided and supervised by a legal framework.

A fully operational cyber command will take years to complete. It is the need of the hour, given that India’s digital capabilities lag significantly behind regional and global players. Whatever final form India’s cyber command takes, the government would do well to pursue a two-pronged strategy in the interim. First, advocate restraint in cyberspace as a global norm. India is an active participant in discussions around the Tallinn Manual, which is a set of non-governmental guidelines for engagement during war. A group of government experts will convene later this year under the aegis of the UN — India is expected to be at the table — to discuss norms that trigger cyber war. At these forums, India should underline the basic **premise** that it is impossible to thwart all cyber attacks, and therefore encourage nation-states to restrain from deploying cyber weapons. Second, the government should draft recruitment guidelines to hire and train a cadre of cyber specialists. Attracting such officers may require high pay scales and other benefits — a model the U.S. has aggressively pursued — but they would bring in India’s best minds. If India’s cyberspace has built-in vulnerabilities, it also has a highly skilled IT workforce, which should be **harnessed** by the government for strategic use.

- 101.** Which of the following can be the most suitable title of the passage?
- a) Digital Intrusions                      b) Cyber Security  
c) Digital Marketing                      d) Digital India  
e) None of the above
- 102.** Which of the following statement is/are not true in context of the passage?
- (i) There is a need of a multi-agency organization for digital warfare.  
(ii) India has abundant officers trained in creating and breaking encrypted platforms.  
(iii) There is no national security architecture today that can assess the nature of cyber threats.
- a) Only (i)                      b) Both (ii) and (iii)                      c) Only (ii)  
d) Both (i) and (iii)                      e) All (i), (ii) and (iii)
- 103.** According to the passage, which of the following is not a top layer agency in India that are performing cyber operations?
- a) The National Technical Research Organization  
b) The National Intelligence Grid  
c) The National Information Board  
d) Ministries of Defense  
e) None of the above
- 104.** According to the passage, what does India do to build its cyber capabilities?
- (i) Development of software designed to intrude, intercept and exploit digital networks.  
(ii) Advocate restraint in cyberspace as a global norm.

(iii) The government should draft recruitment guidelines to hire and train a cadre of cyber specialists.

- a) Only (i)                      b) Both (ii) and (iii)  
c) Only (ii)                     d) Both (i) and (ii)  
e) All (i), (ii), (iii)

**105.** Which of the following statement is/are true in context of the passage?

- (i) India's digital capabilities lag behind regional and global players.  
(ii) India's national security architecture faces a difficult task in cyberspace.  
(iii) Digital trail restricts adversaries to track the development of future technologies.  
a) Both (i) and (ii)                      b) Only (iii)  
c) Both (ii) and (iii)                    d) Only (ii)  
e) All (i), (ii) and (iii)

**Directions (106-108):** Choose the word which is most **SIMILAR** in meaning of the word printed in bold as used in the passage.

**106. Susceptible**

- a) Immune                      b) Resistant                      c) Manageable  
d) Suggestible                    e) Vulnerable

**107. Espionage**

- a) Surveillance                    b) Intelligence                    c) Utterance  
d) Opinion                        e) Impression

**108. Harnessed**

- a) Embezzled                    b) Squeezed                      c) Utilized  
d) Triumphed                    e) Abused

**Directions (109 to 110):** Choose the word which is most **OPPOSITE** in meaning of the word printed in bold as used in the passage.

**109. Premise**

- a) Assumption                    b) Presumption                    c) Reality  
d) Estimate                        e) Speculate

**110. Deterrence**

- a) Obstacle                        b) Encouragement  
c) Retardation                    d) Inhibition                      e) Dissuasion

**Directions (111-120):** Read the following passage carefully and answer the questions given below it. Certain words/phrases have been printed in bold to help you locate them while answering some of the questions.

The shutdown of the 220 MW Unit-1 of the Kakrapar Atomic Power Station located in Gujarat's Surat district following leakage of heavy water used to cool the nuclear reactor, on March 11, the fifth anniversary of the Fukushima Daiichi nuclear plant disaster in Japan, is at once a reminder of the inherent risks associated with operating nuclear reactors and the importance of augmenting safety mechanisms. Unlike the Fukushima accident, rated seven (the highest level) on the International Nuclear and Radiological Event Scale, where meltdown of the core of three reactors

occurred due to the failure of the cooling system, it is reassuring that the safety systems of the KAPS reactor worked as intended, including the backup cooling systems, thus preventing any **cascading** event leading to radioactivity release outside the plant. While this may be a "rare event for a functioning plant" that happened for the "first time" in India, it is a cause for concern that the magnitude of the coolant system failure was "significant". That the reactor has been shut down and an independent assessment of the safety situation at the plant is being undertaken by scientists from the Atomic Energy Regulatory Board evokes confidence. The second unit here has remained shut since July 2015 for maintenance. While the AERB has maintained its independence in terms of its risk assessment and management functions, there is no room for **complacency**. It must be borne in mind that collusion between the Japanese government, the country's regulator and the operator had led to many violations that were **detrimental** to the environment and human health.

Given the heightened fear of nuclear energy in India following the Fukushima disaster, the only way AERB officials can reassure the public and win confidence is by being more transparent with its findings, however grave they are, and by taking all necessary steps to ensure that similar events are **averted** in the future. Just as lessons learnt from the Fukushima accident led to an enhancement of the level of safety of the backup systems in reactors that are under construction in India, lessons from this incident should be put to good use. These steps are indeed warranted as India plans to increase the installed nuclear power capacity from the current 5,780 MW to 10,080 MW by the end of the Twelfth Plan (2017) and 20,000 MW by 2020. Also, India gave an assurance in Paris that by 2030 it would reduce carbon emissions relative to its GDP by 33-35 per cent from 2005 levels and also generate 40 per cent of the country's electricity from non-fossil fuel-based sources, using among others the solar, wind and nuclear options. While India has positioned itself as a leader in the renewable energy sector by playing a **pivotal** role in the creation of the International Solar Alliance, the nuclear space is plagued by delays in completing the construction of reactors, as seen in the case of Kota in Rajasthan (RAPP 7 and 8) and at Kakrapar (KAPP 3 and 4). Whether public sentiment supports fresh nuclear reactor proposals would depend on how well the AERB fulfils its tasks.

**111.** Which of the following can be the most suitable title of the passage?

- a) Nuclear space between India and Japan.  
b) Nuclear transparency.  
c) Transparency at any cost.  
d) Shutdown of nuclear reactor.

e) None of the above.  
**112.** Which of the following statement is/are not true in context of the passage?

- (i) India plans to increase the installed nuclear power capacity from the current 5,780 MW to 20,000MW by the end of the Twelfth Plan (2017) and 10,080 MW by 2020.  
 (ii) India has given assurance in Paris that by 2030 it would reduce carbon emissions relative to its GDP by 33-35 per cent from 2005 levels.  
 (iii) India will generate 40 per cent of the country's electricity from non-fossil fuel-based sources.  
 a) Only (i)                      b) Both (ii) and (iii)  
 c) Only (ii)                     d) All (i), (ii) and (iii)  
 e) None of the above

**113.** According to the passage, how AERB officials can reassure the public and win their confidence regarding the fear of nuclear energy?

- (i) By being more transparent with its findings  
 (ii) By playing a pivotal role in the creation of the International Solar Alliance.  
 (iii) Taking all necessary steps to ensure that similar events are averted in the future.  
 a) Both (ii) and (iii)                      b) Only (i)  
 c) Both (i) and (iii)                     d) All (i), (ii) and (iii)  
 e) None of the above

**114.** According to the passage, why did the shutdown of 220 MW Unit-1 of the Kakrapar Atomic Power Station located in Gujrat take place?

- a) For emergency purposes  
 b) Due to the meltdown of the core of three reactors.  
 c) For maintenance purposes.  
 d) Due to the leakage of heavy water used to cool the nuclear reactor.  
 e) None of the above.

**115.** Which of the following statement is/are true in context of the passage?

- (i) India has positioned itself as a leader in the renewable energy sector.  
 (ii) AERB has maintained its independence in terms of its risk assessment and management functions.  
 (iii) The shutdown of the 200 MW Unit-1 of the Kakrapar Atomic Power Station located in Gujrat took place during first anniversary of the Fukushima Daiichi nuclear plant disaster in Japan.  
 a) Both (i) and (ii)    b) Only (iii)  
 c) Both (ii) and (iii)    d) All (i), (ii), (iii)  
 e) None of the above.

**Directions (116-118):** Choose the word which is most **SIMILAR** in meaning of the word printed in bold as used in the passage.

**116. Cascading**

- a) Avalanche                      b) Emanate                      c) Emerge  
 d) Succession                     e) Overflow

**117. Complacency**

- a) Dissatisfaction                      b) Frustration                      c) Disregard  
 d) Satisfaction                     e) Grievance

**118. Detrimental**

- a) Poisonous                        b) Ruinous                        c) Mischievous  
 d) Beneficial                        e) Harmful

**Directions (119-120):** Choose the word which is most **OPPOSITE** in meaning of the word printed in bold as used in the passage.

**119. Averted**

- a) Assisted                        b) Diverted                        c) Frustrated  
 d) Prevented                        e) Deterred

**120. Pivotal**

- a) Crucial                            a) Significant                      c) Complex  
 d) Capital                            e) Trivial

**Directions (121-125):** Rearrange the following sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph, then answer the questions given below them.

(A) No one wants to pay more in taxes and everyone wants more and better public services.

(B) Even in the best of times, Budget-making is a very difficult exercise in India.

(C) It is Budget time again, and a lot of things have been written and spoken about what the Finance Minister should and can do.

(D) While everyone wants to bequeath considerable wealth to their progeny, myopia sets in while it comes to government borrowing even as it involves a burden on the future generations.

(E) Given the depressing global environment, marked slowdown in domestic manufacturing and increasing expenditure demands, the challenges this year look formidable.

(F) Indeed, every section of the community has expectations.

**121.** Which of the following would be the **FIRST** sentence after rearrangement?

- a) F                      b) B                      c) E                      d) C                      e) A

**122.** Which of the following would be the **SECOND** sentence after rearrangement?

- a) A                      b) C                      c) E                      d) F                      e) B

**123.** Which of the following would be the **THIRD** sentence after rearrangement?

- a) A                      b) B                      c) F                      d) E                      e) C

**124.** Which of the following would be the **FOURTH** sentence after rearrangement?

- a) C                      b) E                      c) D                      d) B                      e) F

125. Which of the following would be the **SIXTH** sentence after rearrangement?

- a) B      b) A      c) C      d) F      e) E

**Directions (126-130):** Each question below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank that best fits the meaning of the sentence as a whole.

126. It is only through continuation of responsible research in climate engineering that the \_\_\_\_\_ and risks of such interventions can be fully \_\_\_\_\_ and provide the basis for informed decision-making.

- a) Limitations, understood      b) Restriction, assumed  
c) Hindrance, presumed      d) Interruption, rejected  
e) Complication, applied

127. Losing territories in Iraq and \_\_\_\_\_ the heat of American and Russian air strikes in Syria, the Islamic State is fast expanding its \_\_\_\_\_ in stateless, civil war-stricken Libya.

- a) Recepting, existence      b) Loving, absence  
c) Desiring, appearance      d) Effecting, residence  
e) Feeling, presence

128. The global climate system is too \_\_\_\_\_ for current computational techniques to predict all possible \_\_\_\_\_ of tampering with it.

- a) Prominent, prominences      b) Difficult, significances  
c) Complex, consequences      d) Important, prominences  
e) Critical, seriousness

129. The U.S.-Japan-India trilateral has \_\_\_\_\_ momentum in recent years, with regular meetings and a \_\_\_\_\_ of collective exercises.

- a) Reached, diversity      b) Attained, dissimilarity  
c) Made, multiplicity      d) Gathered, variety  
e) Gained, variety

130. Economists say that for Indian economic growth to \_\_\_\_\_ to double digits, energy supplies must \_\_\_\_\_ by three to four times over the next few decades.

- a) Achieve, decrease      b) Restore, increase  
c) Return, increase      d) Reinstate, decrease  
e) Reach, increase

**Directions (131-140):** 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.

In today's Europe, which **..(131)..** itself on having lived down its own **..(132)..** past, even just the prospect of the electoral **..(133)..** of parties representing that form of nationalism has **..(134)..** the entire spectrum of mainstream politics with dread, while in our country that **..(135)..** of nationalism has not only electorally **..(136)..** but has become the political mainstream. Yet European governments, not to mention the United States, fawn over our Prime Minister as a hero who

has opened up **..(137)..** vistas of new **..(138)..** What this says about the victory of **..(139)..** global economic interests over global political morality should be **..(140)..** to any alert political observer.

131. a. commends      b. salutes      c. criticizes  
d. congratulates      e. describes
132. a. bright      b. recent      c. simple  
d. shady      e. dark
133. a. success      b. voting      c. participation  
d. positivity      e. failure
134. a. provided      b. maintained      c. guided  
d. filled      e. completed
135. a. pattern      b. format      c. factor  
d. form      e. side
136. a. overpowered      b. suffered      c. baffled  
d. overtook      e. triumphed
137. a. big      b. unimportant      c. huge  
d. vast      e. different
138. a. opportunities      b. misfortunes      c. occasions  
d. odds      e. crisis
139. a. elite      b. worst      c. serious  
d. major      e. minute
140. a. clear      b. obvious      c. evident  
d. obscure      e. final

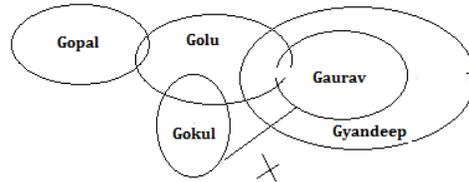
**Solutions:**

**Directions (1-5):**

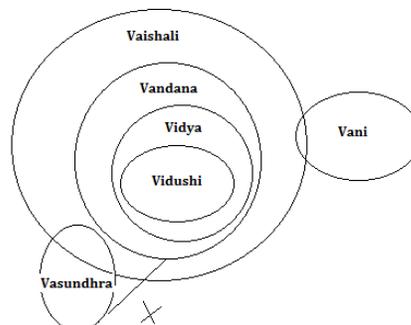
1. (a)



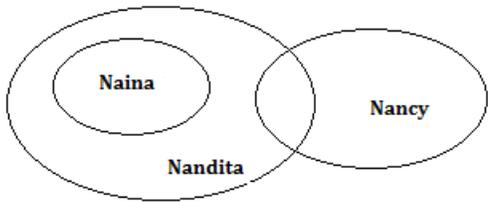
2. (b)



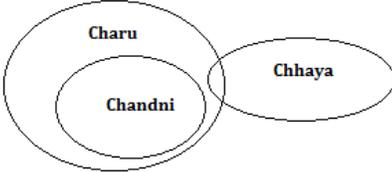
3. (e)



4. (b)



5. (c)



Directions (6-10):

Red	Green	Black	Orange		Tennis	Racing	Shooting	Riding
×	×	×	✓	Varun	✓	×	×	×
×	×	✓	×	Arjun	×	✓	×	×
×	✓	×	×	Ranveer	×	×	✓	×
✓	×	×	×	Siddharth	×	✓	×	×
×	×	✓	×	Imran	×	×	×	✓
×	✓	×	×	Tiger	✓	×	×	×

6. (d)

7. (b)

8. (c)

9. (d)

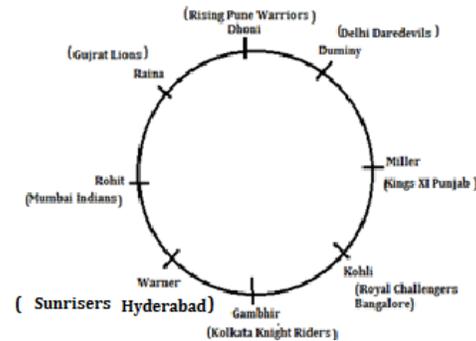
10. (a)

Directions (11-15):

- (d): All courses of action follow because creating awareness among farmers about the education is necessary and by offering incentives to farmers, govt. can help farmer financially. And making education compulsory is an important course of action.
- (d): Only II and III follow because for better functioning and for making profit from mill is necessary that both owner and worker should cooperate each other.
- (c): Only II and III follow. 2nd course of action is preventive in nature for passengers.
- (e): Only 1st course of action follows because it is mentioned in statement that hill area is severely damaged. 2nd and 3rd course of action do not follow because it is not mention in statement that state Govt. is not capable of tackling Rs. 200 cr. burden and govt. can't levy relief tax to the corporate sectors to ease burden.

- (c): Only IIIrd course of action follows. 1st and 2nd are extreme course of action. So, these two do not follow and 3rd one is preventive course of action.

Directions (16-20):



16. (c)

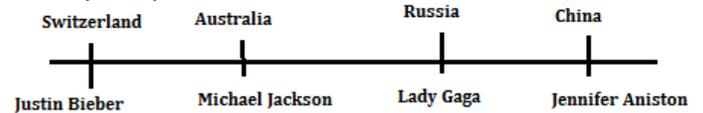
17. (b)

18. (d)

19. (d)

20. (d)

Directions (21-25):



21. (b)

22. (e)

23. (d)

24. (a)

25. (d)

Directions (26-30):

- (d): All options are positively relevant to the increment in production, improvement in irrigation system with a good income of farmers, so all are correct.
- (a): Govt. promulgate about subsidies and benefits to give benefit to untouched portion of our population.
- (e): If any country decrease fiscal deficit than it is good for their economy. It will become less, if currency improve their position, if revenue deficit decrease and economy boost, So all except A may be reason for above result.
- (d): Crude oil price dropped in U.S. then it may be possible that currency value increase, global over supply and demand for fuel decline in that time, so all are being positive causes behind dropped out price of oil.
- (d): Increment in CO2 emission and others having this possible effect that by this oceans acidic level increase, quality and nutrition will decrease. It may be govt. banned

old industries that emit these gases a lot so all are being possible effect.

**Directions (31-34):**

**Input :** 41 kite work 17 75 volve book tree 23 alert 93 49

**Step I :** alert 41 kite work 17 75 volve book tree 23 49 93

**Step II :** book alert 41 kite work 17 volve tree 23 49 93 75

**Step III :** kite book alert 41 work 17 volve tree 23 93 75 49

**Step IV :** tree kite book alert work 17 volve 23 93 75 49 41

**Step V :** volve tree kite book alert work 17 93 75 49 41 23

**Step VI :** work volve tree kite book alert 93 75 49 41 23 17

31. (c)

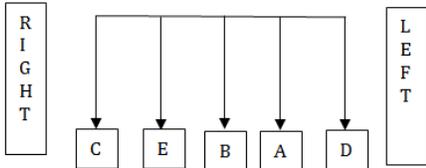
32. (d)

33. (e)

34. (b)

35. (c)

It is clear that D is third to the left of E.



**Directions(36-40):**

36. (d)

From both the statements we do not know how many boys do not play chess. And number of girls is also not known. Hence, the question can't be answered.

37. (a)

Data in Statement I is sufficient to know the age of Tomar.

38. (c)

Data either in Statement I or in Statement II alone are sufficient to know the total number of students in the class which is = 58.

39. (e)

Using both the statements together it is ascertained that Ramu has no brother.

40. (d)

Even both the statements I and II together are not sufficient to answer the question.

**Directions(41-45):**

41. (a) **I. Implicit:** Company must have assumed that local candidates have their accommodation.

**II. Not Implicit:** Not related to statement.

42. (d) **I. Not-implicit:** Not directly related to statement. Since the statement shows increase in the number of cases of food poisoning. Large number of people cannot justify increase in cases.

**II. Not-implicit:** No directly related to statement. Statement does not talk about number of unauthorized shops.

43. (a) **I. Implicit:** This is the reason why lack of stimulation in earliest years of life is important.

**II. Not implicit:** Statement does not talk about measurement of intelligence.

44. (a) **I. Implicit:** X-Airlines must have assumed that demand for seats will remain unchanged.

**II. Not-implicit:** Statement does not talk about other airlines.

45. (e): Both are implicit. When someone apply for a loan, it is assumed that he knows the amount upto which bank grants loan and type of mortgage which bank accepts.

**Directions (46-50)**

Name	Location	Transport
Shukla	Lucknow	Rail
Mishra	Surat	Car
Singh	Delhi	Air
Kulkarn	Surat	Car
Rao	Delhi	Air
Joshi	Lucknow/Chandigarh	Air
Nair	Lucknow/Chandigarh	Air

46. (a)

47. (b)

48. (e)

49. (d)

50. (c)

51. (2) The pattern of the number series is :  
 $(484 \div 2) - 2 = 242 - 2 = 240$

**$(240 \div 2) - 2 = 120 - 2 = 118 \neq 120$**

$(118 \div 2) - 2 = 59 - 2 = 57$

$(57 \div 2) - 2 = 28.5 - 2 = 26.5$

52. (4) The pattern of the number series is :  
 $3 \times 1 + 2 = 5$

$5 \times 2 + 3 = 13$

$13 \times 3 + 4 = 43$

**$43 \times 4 + 5 = 177 \neq 176$**

$177 \times 5 + 6 = 891$

53. (5) The Pattern of the number series is :  
 $6 + 1^2 = 6 + 1 = 7$

$7 + 3^2 = 7 + 9 = 16$

$16 + 5^2 = 16 + 25 = 41$

$41 + 7^2 = 41 + 49 = 90$

**$90 + 9^2 = 90 + 81 = 177 \neq 154$**

$171 + 11^2 = 171 + 121 = 292$

54. (1) The pattern of the number series is :  
 **$5 \times 1 + 1^2 = 6 \neq 7$**

$6 \times 2 + 2^2 = 16$

$16 \times 3 + 3^2 = 57$

$57 \times 4 + 4^2 = 228 + 16 = 244$

$244 \times 5 + 5^2 = 1220 + 25 = 1245$

55. (3) The pattern of the number series is :  
 $4 \times 0.5 + 0.5 = 2 + 0.5 = 2.5$

$2.5 \times 1 + 1 = 3.5$

**$3.5 \times 1.5 + 1.5 = 6.75 \neq 65$**

$6.75 \times 2 + 2 = 15.5$

$15.5 \times 2.5 + 2.5 = 38.75 + 2.5 = 41.25$

$41.25 \times 3 + 3 = 123.75 + 3 = 126.75$

56. (b) Length of the statement II does not give any information that can help us to find the length of the other two sides

while we can find the length of the sides when two angles are known by using statement I by applying sine-rule.

57. (b) Sum of the length of any two sides is always greater than the length of third sides. Therefore,

$$m+2n > m+m+n$$

$$\text{i.e., } n > m \text{ or } \frac{m}{n} < 1$$

Maximum value  $\frac{m}{n}$  can take 1, statement II does not give any information.

58. (d) Position of point D and E is not known.

59. (c) Statement I tells that N is a multiple of LCM (3, 5, 7, 9), i.e., 315.

Therefore N can be  $315 \times 1, 315 \times 2, 315 \times 3, \dots$

Statement II does not give any exact information about the value of N. 315 is the only number that can satisfy both statements. Thus, both statements are required.

60. (d) Let's assume that price of pen, pencil and marker be A, B and C respectively.

From statement I, we have

$$A = B + 5$$

From statement II we have

$$C = 3 \times A \text{ and } B = C - 5$$

$$\Rightarrow B = 3A - 5$$

Hence, statement I and statement II both are not sufficient.

61. (4)  $x = \frac{5}{3}, \frac{3}{2}$   
 $Y = \frac{3}{2}, \frac{7}{5}$  ;  $x < y$

62. (4)  $x = -\frac{8}{3}, \frac{7}{4}$   
 $Y = 2, \frac{7}{4}$  ;  $x < y$

63. (1)  $x = -3, -\frac{4}{3}$   
 $Y = -5, -4$  ;  $x > y$

64. (2)  $x = 1, \frac{7}{8}$   
 $Y = 2, \frac{3}{2}$  ;  $x < y$

65. (2)  $x = 4$

Directions: (81-85)

<b>Total = 600</b>								
<b>Male = <math>\frac{11}{15} \times 600 = 440</math></b>				<b>Female = <math>\frac{4}{15} \times 600 = 160</math></b>				
Sports	Athletics		Table- Tennis		Kho - Kho		Lawn - Tennis	
	Male	Female	Male	Female	Male	Female	Male	Female
	165	48	165	16	99	24	11	72

81. (4) Ratio  $\frac{\text{Lawn Tennis}_{\text{female}}}{\text{Table Tennis}_{\text{male}}} = \frac{72}{16} = 9 : 2$

82. (1) Difference =  $(\text{Kho-kho})_{\text{male}} - (\text{Lawn Tennis})_{\text{female}}$   
 $= 99 - 72 = 27$

83. (3) Ratio =  $\frac{\text{Male of Lawn Tennis}}{\text{female of table tennis}} = \frac{11}{16} = 11 : 16$

84. (2) total<sub>Female</sub> = Kho-Kho + Athletics =  $24 + 48 = 72$

85. (5) Total<sub>(male and female)</sub> = Athletics + Table tennis  
 $= (165 + 165)_{\text{male}} + (48 + 16)_{\text{female}} = 394$

86. (c) Let original dimension of square be 'x' unit

$$\therefore \text{Total area of paper} = 144 \times x^2$$

$$\text{Now, Area of reduced square} = (x - 2)^2$$

$$Y = 5 \quad ; \quad x < y$$

66. (3) Chhattisgarh, A slight look is sufficient to answer this question.

67. (2) Req'd. difference =  

$$\frac{(37-3) + (39-28) + (121-13) + (21-10) + (24-3)}{5} = 5$$

68. (4) Total Polio cases in Jharkhand (2002) = 121  
 Total Polio cases in India (2002) = 1600

$$\therefore \text{Req'd. answer} = \frac{121}{1600} \times 100 = 7.5\%$$

69. (3) Req'd. percentage =  $\frac{3+27}{24} \times 100 = 125\%$

70. (4) Total Polio cases in India (2001) = 268  
 Total Polio cases in the given states (2001) = 36

$$\text{Hence, req'd. ratio} = \frac{36}{286-36} = \frac{36}{232} = 9 : 58.$$

71. (2) Required ratio =  $\frac{45+925}{60+650} = 111 : 104$

72. (2) Required sum = 25% of 880 + 56% of 1125 + 60% of 650  
 $= 220 + 630 + 390 = 1240$

73. (2) Number of female employees of company B = 40% of 1050 = 420

$$\text{Required Percentage} = \frac{420}{1125} \times 100 = 37.33\%$$

74. (4) Required sum =  $925 + 1050 + 880 + 1125 + 650 + 985 = 5615$

75. (3) Total number of female employees =  $510 + 420 + 660 + 630 + 390 + 345 = 2950$  (approx)  
 Required average =  $2950/6 = 490$  approx.

76. (2); In 2003 = 38.62% (approx.)

77. (1); Required population = 1400 millions

78. (5); Average exports =  $1545 \div 6 = 257.5$  millions

79. (5); Required average = 455 grams (approx.)

80. (2); Required % = 35% (approx.)

$$\therefore \text{Total area of square} = 144 \times (x - 2)^2$$

$$\text{Now, } 144 \times x^2 = 144 \times (x - 2)^2$$

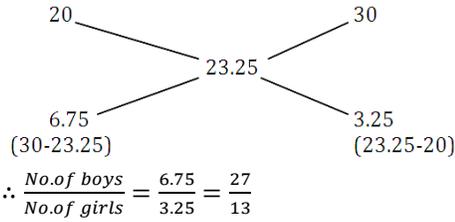
$$\therefore x = 5 \text{ cm}$$

$$\therefore \text{Area of paper} = 5^2 \times 144 = 3600 \text{ cm}^2$$

87. (a) Average weight of F = (Average weight of first six lightest player) + (Average weight of six heaviest player) - (average of all 11 player)

$$= (6 \times 49) + (6 \times 52) - (11 \times 50) = 56 \text{ kg.}$$

88. By alligation concept,



89. (d) Since,

	Male	:	Female
A	4x	:	3x
B	3y	:	2y
C	5z	:	4z

And given that,  $2y = 4z$

$\therefore$	Male	:	Female
A	4x	:	3x
B	6z	:	4z
C	5z	:	4z

Hence,  $7x + 19z = 33$

Z cannot exceed more than '1' as total is less than 33

$\therefore 7x + 19 = 33$

$x = 2$

$\therefore$  No. of female children in factory A =  $3x = 6$

90. (b) Let fix amount be 'k' and 'x' be the changeable amount

$k + 10x = 6000$  .....(1)

And  $\therefore k + 25x = 9000$  .....(2)

From (1) and (2)  $\therefore x = 200, k = 4000$

$\therefore$  Total expenditure of 40 guests =  $4000 + 40 \times 200 = 12000$  Rs.

91. (b) percentage of time devoted in a day for advertisement

$= \frac{60 \times 8 + 16 \times 30}{16 \times 60 \times 60} \times 100 = 1.66\%$

92. (c) Initially, Let CP=100

Profit = x

$\therefore$  SP =  $100 + x$

And marked price = 133.33

After change,

CP = 100

Profit =  $2x$ , SP =  $(100 + x) \times \frac{7}{6}$

$(100 + x) \times \frac{7}{6} - 100 = 2x$

After solving,  $x = 20\%$

$\therefore$  Increased selling

price =  $400 \times \frac{100}{125} + 2 \times (20\% \text{ of } 300) = \text{Rs. } 420$

93. (a) Ratio of Profit (excluding commission) =  $\frac{54000}{90000} = \frac{3}{5}$

Now, share of profit 'A' = 1080

Share of profit 'B' =  $3600 - 1800 = 1800$

$\therefore$  Commission of A =  $1800 - 1080 = 720$

$\therefore$  Required Percentage =  $\frac{720}{3600} \times 100 = 20\%$

94. (b) Total time (25 + 5) years

No. of time periods for cost increment =  $\frac{30}{6} = 5$

& No. of time for rupee depreciation =  $\frac{30}{5} = 6$

$\therefore$  Value of plot =  $100 \times (1.05)^5 \times (0.98)^6 \approx \text{RS. } 1134$

95. (e) Balance price to be paid in installments =  $1500 - 350 = 1150$  rs.

Now, total amount for the next 3 installments at the end of 3<sup>rd</sup> month will be

$400 + \left(400 + \frac{400 \times r \times 1}{12 \times 100}\right) = 1150 + \frac{1150 \times 3 \times r}{12 \times 100} + \left(400 + \frac{400 \times r \times 2}{100 \times 12}\right)$

After saving, we get  $r = \frac{80}{3} = 26.6690$

96. (c) Efficiency of Kaushalya = 5%

Efficiency of Kaikeyi = 4%

Thus, in 10 days working together they will complete only 90% of the work. =  $(5 + 4) \times 10 = 90$

Hence, the remaining work will surely done by sumitra i.e. 10% of work

Sumitra will get 10% of Rs. 700 i.e. Rs. 70

97. (c) In first 3 hours, Vimal Covers =  $30 \times 3 = 90$  km.

$\therefore$  Rest distance =  $650 - 90 = 560$  km

Now, both travels together, towards each other

$\therefore$  Time =  $\frac{560}{(40+30)} = 8$  h.

$\therefore$  Vimal travels total time =  $3 + 8 = 11$  hour

$\therefore$  Distance travelled by Vimal =  $11 \times 30 = 330$  km

98. (c)  $\frac{\text{speed of wind}}{\text{Speed of car}} = \frac{(\text{Time utilised})}{(\text{Time saved})}$

$\frac{332}{x} = \frac{5 \times 60 + 32}{6 \times 60 - (5 \times 60 + 32)}$

$\therefore x = 28$  m/s

99. (a) Volume of water which flow in 25 minutes =  $25 \times 60 \times 0.05 \times 0.03 \times 16 = 36 \text{ m}^3$

$\therefore$  Rise in water level =  $\frac{36}{15 \times 12} = \frac{1}{5} \text{ m} = 0.2 \text{ m}$

100. (c)  $\therefore$  Length of tank = 120 cm.

Since  $\frac{120}{7} = 17 \frac{1}{7}$ , Hence, 17 cubes can be placed along length & breadth of tank = 80 cm

Since,  $\frac{80}{7} = 11 \frac{3}{7}$ , Hence, 11 cubes can be placed along breadth

Height of tank = 50cm

$= \frac{50}{7} = 7 \frac{1}{7}$

7 cubes along height can be placed

$\therefore$  Total volume occupied by these cubes =  $7^3 \times 17 \times 11 \times 7 = 448987 \text{ cm}^3$

$\therefore$  Total volume of tank =  $120 \times 80 \times 50 = 480000 \text{ cm}^3$

$\therefore$  Area of unoccupied space =  $480000 - 448987 = 31013 \text{ cm}^3 = 31.013 \text{ dm}^3$

101. (a); Digital Intrusions is the most suitable title for the passage.

102. (c); "India faces a shortage of officers trained in creating and breaking encrypted platforms as well as using digital networks for intelligence gathering."

103. (e); "India currently has a top layer of agencies performing cyber operations."

104. (e); "India should not hesitate to build its offensive cyber capabilities."

105. (a); "Digital trail allows adversaries to track and possibly predict the development of future technologies."
106. (e); **Susceptible**  
**Meaning-** likely or liable to be influenced or harmed by a particular thing. So, Vulnerable is the word which is similar in meaning to it.
107. (a); **Espionage**  
**Meaning-** the practice of spying or of using spies. So, Surveillance is the word which is similar in meaning to it.
108. (c); **Harnessed**  
**Meaning-** control and make use of. So, Utilized is the word which is similar in meaning to it.
109. (c); **Premise**  
**Meaning-** a previous statement or proposition from which another is inferred or follows as a conclusion. So, Reality is the word which is opposite in meaning to it.
110. (b); **Deterrence**  
**Meaning-** a negative motivational influence. So, Encouragement is the word which is opposite in meaning to it.
111. (c); Transparency at any cost is the most suitable title for the passage.
112. (a); "These steps are indeed warranted as India plans to increase the installed nuclear power capacity from the current 5,780 MW to 10,080 MW by the end of the Twelfth Plan (2017) and 20,000 MW by 2020."
113. (c); "While India has positioned itself as a leader in the renewable energy sector by playing a pivotal role in the creation of the International Solar Alliance"
114. (d); "The shutdown of the 220 MW Unit-1 of the Kakrapar Atomic Power Station located in Gujarat's Surat district following leakage of heavy water used to cool the nuclear reactor"
115. (a); Refer to the first paragraph of the passage.
116. (d); **Cascading**  
**Meaning-** pass (something) on to a succession of others. So, Succession is the word which is similar in meaning to it.
117. (d); **Complacency**  
**Meaning-** a feeling of uncritical satisfaction with oneself or one's achievements. So, Satisfaction is the word which is similar in meaning to it.
118. (e); **Detrimental**  
**Meaning-** tending to cause harm. So, Harmful is the word which is similar in meaning to it.
119. (a); **Averted**  
**Meaning-** prevent or ward off (an undesirable occurrence). So, Assisted is the word which is opposite in meaning to it.
120. (e); **Pivotal**  
**Meaning-** of crucial importance in relation to the development or success of something else. So, Trivial is the word which is opposite in meaning to it.
- For questions (121-125);** The complete sequence to form meaningful paragraph is **CFADBE**.
121. (d); C
122. (d); F
123. (a); A
124. (c); D
125. (e); E
126. (a); 'Limitations, understood' is the correct use.  
**Limitations-**  
 a limiting condition; restrictive weakness; lack of capacity.
127. (e); 'Feeling, presence' is the correct use.  
**Presence-** the state or fact of being present.
128. (c); 'Complex, consequences' is the correct use.  
**Complex-** a group or system of different things that are linked in a close or complicated way.  
**Consequences-** a result or effect, typically one that is unwelcome or unpleasant.
129. (e); 'Gained, variety' is the correct use.  
**Variety-** the quality or state of being different or diverse.
130. (c); 'Return, increase' is the correct use.
131. (d)
132. (e)
133. (a)
134. (d)
135. (d)
136. (e)
137. (d)
138. (a)
139. (a)
140. (b)

# SBI PRE : PRACTICE SET

## REASONING

**Directions (1-5):** Study the following information carefully and answer the questions given below:

Chanda Kochhar, Arundhati Bhattacharya, Shikha Sharma, Nita Ambani, Naina Lal Kidwai, Usha Ananthasubramanian and Vijayalakshmi Iyer are MD of different company. Each of them works on different floors numbered from I to VII, but not necessarily in the same order. Each of them wears a saree of a different colour, viz Blue, Green, Yellow, Sky Blue, Purple, Red and Pink but not necessarily in the same order.

Arundhati Bhattacharya works on floor IV but she does not wear either Purple or Sky Blue saree. Shikha Sharma wears Blue saree but she does not work on floor II or VI. Naina Lal Kidwai works on floor V and she wears a Red saree. The one who wears a Green saree works on floor VII. Nita Ambani works on floor I. Vijayalakshmi Iyer wears a pink saree. Chanda Kochhar does not work on VII. The one who wears sky Blue sarees works on floor II.

- Vijayalakshmi Iyer works on which of the following Floors?  
a) II                                      b) III                                      c) VI  
d) VII                                      e) None of these
- Chanda Kochhar wears a saree of which of the following colours?  
a) Sky Blue                              b) Blue                                      c) Purple  
d) Yellow                                      e) None of these
- Which of the following combinations is/are true?  
a) Usha Ananthasubramanian - Yellow – VII  
b) Nita Ambani – Purple - I  
c) Chanda Kochhar – Green – I  
d) Both a) and c)                              e) None of these
- Who among the following wears a saree of Green colour?  
a) Chanda Kochhar                      b) Usha Ananthasubramanian  
c) Nita Ambani                              d) Can't be determined  
e) None of these
- Who among the following works on floor II?  
a) Usha Ananthasubramanian  
b) Shikha Sharma                              c) Chanda Kochhar  
d) Vijayalakshmi Iyer                              e) None of these

**Directions (6-10):** In each question below are given two/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. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer:-

- if only conclusion I follows.
- if only conclusion II follows.
- if either conclusion I or II follows.
- if neither conclusion I nor II follows.
- if both conclusions I and II follow.

**(6-7):**

**Statements:** No Taj Mahal is a Red Fort.  
Some Amer Fort are Taj Mahal.  
All Hawa Mahal are Red Fort.

**6. Conclusions:**

- All Amber Fort being Red Fort is a possibility.
- All Taj Mahal being Hawa Mahal is a possibility.

**7. Conclusions:**

- Some Red Fort are not Amer Fort.
- No Hawa Mahal is a Taj Mahal.

**8. Statements:** Some Titanic are Avtar.

Some Avengers are Star Wars. All Star Wars are Avtar.

- Conclusions:** I. All Titanic being Star Wars is a possibility.  
II. Some Avtar are not Avengers is a possibility.

**9. Statements:** All Lata are Shreya

All Asha are Alka.                              Some Shreya are not Alka.

**Conclusions:**

- Some Shreya are not Asha.
- No Lata is a Alka.

**10. Statements:** No Undertaker is a John Cena.

Some Undertaker are Rock. All John Cena are Triple H.

**Conclusions:**

- All John Cena being Rock is a possibility.
- Some Triple H are not Undertaker.

**Directions (11-15):** Study the following information and answer the given questions.

In a certain code language, 'aniket is handsome and smart' is written as 'su zo ti ra mo', 'is modi great' is written as 'chi mo nic', 'aniket great leader narendra' is written as 'fa nic ti ye', 'welcome polite narendra brave' is written as 'phi ye koo da' and 'and polite' is written as 'su phi'.

**11.** What is the code for 'smart'?

- su    b) zo    c) ra
- Either zo or ra                              e) None of these

**12.** What does 'fa' stand for?

- aniket    b) narendra                                      c) great
- leader    e) Can't be determined

**13.** Which of the following is the code for 'and polite modi brave'?

- koo da phi chi                              b) phi su re chi                                      c) ti da zo chi
- su phi chi pa                                      e) None of these

14. Which of the following is represented by the code 'mo ye su phi'?

- a) great handsome and narendra  
b) is modi narendra polite  
c) and is narendra polite  
d) narendra great brave polite e) None of these

15. Which of the following may be the code for 'world handsome overcome through and smart'?

- a) nic zo su ra mo pic b) pic zo ra su vo bi  
c) su pic ye zo ra fa d) ti ra su chi mo zo  
e) None of these

**Directions (16-20):** Study the following information carefully and answer the questions given below:

Four politicians and four hollywood actress—Jennifer Lawrence, Lalu, Kristen Stewart, Mulayam, Emma Stone, Modi, Angelina Jolie and Kejriwal – are sitting around a circular table, not necessarily in the same order. Four of them are facing inside others are facing outside. They are belong to eight different cities – Raghapur, Miami, Itawa, Chicago, New York, Vaishali, Boston and Ahmedabad, but not necessarily in the same order. Modi faces the Centre and sits third to the right of Kristen Stewart. Mulayam belongs to Itawa and faces the person who belongs to Vaishali. Angelina Jolie sits third to the right of Lalu, who stays in Raghapur. The persons who belong to Chicago and New York are facing to the same direction (inside or outside). Emma Stone is sitting between the person who belongs to Itawa and the one from Ahmedabad respectively. Jennifer Lawrence belongs to New York and Kristen Stewart belongs to Miami. The person who belongs to Boston is facing outward and immediate neighbor of the person who belongs to Ahmedabad. Kejriwal is immediate neighbor of the persons who belong to New York and Boston. Emma Stone is immediate left of Mulayam.

16. Who belongs to Vaishali?

- a) Jennifer Lawrence b) Mulayam  
c) Kejriwal d) Angelina Jolie  
e) Emma Stone

17. Immediate neighbors of Jennifer Lawrence?

- a) Lalu and Kristen Stewart  
b) Emma Stone and Mulayam  
c) Kejriwal and Lalu  
d) Angelina Jolie and Emma Stone  
e) Mulayam and Modi

18. Which of the following pair is true?

- a) Jennifer Lawrence – Raghapur  
b) Kejriwal – Vaishali c) Mulayam – Chicago  
d) Modi – Chicago e) Angelina Jolie – Miami

19. Position of Lalu with respect to Emma Stone?

- a) Third to the right b) Fourth to the left  
c) Fifth to the right d) Second to the right  
e) Third to the left

20. If Mulayam and Kejriwal interchange their positions and similarly Modi and Kristen Stewart interchange their positions then what is the position of Jennifer Lawrence with respect to Kristen Stewart?

- a) Third to the left b) Third to the right  
c) Second to the left d) Immediate left  
e) None of these

**Directions (21-25):** In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions

**Mark answer (a)** if only conclusion I follows.

**Mark answer (b)** if only conclusion II follows.

**Mark answer (c)** if either conclusion I or II follows.

**Mark answer (d)** if neither conclusion I nor II follows.

**Mark answer (e)** if both conclusions I and II follow.

21. **Statements :**  $A \geq B = C$ ;  $B < D \leq E$

**Conclusions:** I.  $D > A$  II.  $E > C$

22. **Statements:**  $L > U \geq K$ ;  $Z < U < R$

**Conclusions:** I.  $L > Z$  II.  $K < R$

23. **Statements :**  $Y < J = P \geq R > I$

**Conclusions:** I.  $J > I$  II.  $Y < R$

24. **Statements:**  $V \geq K > M = N$ ;  $M > S$ ;  $T < K$

**Conclusions:** I.  $T < N$  II.  $V = S$

25. **Statements :**  $F \leq X < A$ ;  $R < X \leq E$

**Conclusions:** I.  $F \leq E$  II.  $R < F$

**Directions (26-30):** Study the following information to answer the given questions :

Twelve people are sitting in two parallel rows containing six people each, in such a way that there is an equal distance between adjacent persons. In row-1 Gopal, Saurabh, Prashant, Aniket, Neeraj and Veer are seated and all of them are facing South. In row-2 Katrina, Malaika, Kajol, Deepika, Sunny and Malika are seated and all of them are facing North. Therefore, in the given seating arrangement each member seated in a row faces another member of the other row.

Aniket sits third to right of Saurabh. Either Aniket or Saurabh sits at an extreme end of the line. The one who faces Saurabh sits second to right of Sunny. Two people sit between Malaika and Malika. Neither Malaika nor Malika sits at an extreme end of the line. The immediate neighbour of Malaika faces the person who sits third to left of Gopal. Prashant and Neeraj are immediate neighbours of each other. Kajol sits second to the left of Katrina. Neeraj does not face the immediate neighbour of Deepika.

26. Who amongst the following sit at extreme ends of the rows ?

- (a) Aniket, Deepika (b) Veer, Katrina  
(c) Veer, Kajol (d) Gopal, Deepika  
(e) Saurabh, Malika

27. How many persons are seated between Veer and Prashant?  
 (a) One (b) Two (c) Three  
 (d) Four (e) None
28. Gopal is related to Katrina in the same way as Aniket is related to Malaika based on the given arrangement. To which of the following is Neeraj related to, following the same pattern?  
 (a) Kajol (b) Deepika (c) Sunny  
 (d) Malika (e) Cannot be determined
29. Which of the following is **true** regarding Neeraj ?  
 (a) Malika faces Neeraj  
 (b) Saurabh is an immediate neighbour of Neeraj  
 (c) Malika faces the one who is second to right of Neeraj  
 (d) Neeraj sits at one of the extreme ends of the line  
 (e) Saurabh sits second to the right of Neeraj
30. How many persons are seated between Katrina and Deepika ?  
 (a) One (b) Two (c) Three  
 (d) Four (e) None

**Directions (31-33) :** Study the following information carefully and answer the questions given below:

There are seven family members P, Q, R, S, T, U and V, in which there are two married couples. P is sister of Q, who is maternal grandson of T. The father of S has two maternal grandchildren. R is sister-in-law of V, who is father of P. U is a female.

31. What is the relation between S and U?  
 a) U is mother of S b) S is brother of U  
 c) S is son of U d) S is daughter-in-law of U  
 e) Can't be determined
32. Who among the following is husband of U?  
 a) V b) S c) P  
 d) T e) None of these
33. How P is related to S?  
 a) P is brother of S b) P is daughter of S  
 c) P is sister of S d) P is father of S  
 e) None of these

**Directions (34-35):** Study the following information carefully and answer the questions given below:

Neeraj is 10m to the north of Meena, who is to the northwest of Aniket. Meena is 15m to the west of Saurabh. Vidushi is 10m to the east of Aniket, who is 10m to the south of Saurabh.

34. In which direction is Aniket with respect to Neeraj?  
 a) South b) Southeast c) Southwest  
 d) West e) None of these
35. What is the total distance between point Neeraj and Aniket?  
 a) 35m b) 25m c) 30m  
 d) 20m e) None of these

### MATHS

**Directions (36-40):** What will come in place of the question mark (?) in the following number series ?

36. 15            21            39            77            143            (?)  
 (1) 243                            (2) 240                            (3) 253  
 (4) 245                            (5) None of these
37. 33            39            57            87            129            (?)  
 (1) 183                            (2) 177                            (3) 189  
 (4) 199                            (5) None of these
38. 15            19            83            119            631            (?)  
 (1) 731                            (2) 693                            (3) 712  
 (4) 683                            (5) None of these
39. 19            26            40            68            124            (?)  
 (1) 246                            (2) 238                            (3) 236  
 (4) 256                            (5) None of these
40. 43            69            58            84            73            (?)  
 (1) 62                            (2) 98                            (3) 109  
 (4) 63                            (5) None of these

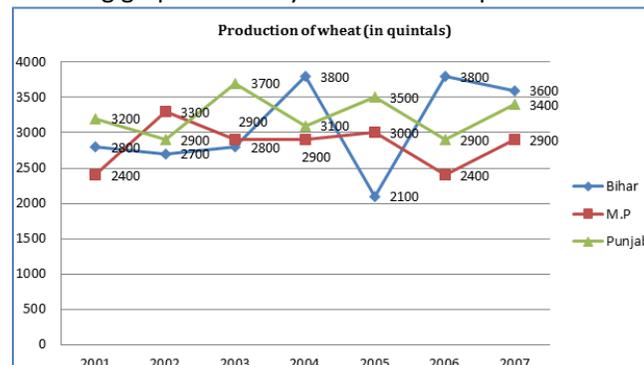
**Directions (41-45):** In each of these questions two equations (I) and (II) are given. You have to solve both the equations and give answer

- (1) if  $x > y$                             (2) if  $x \geq y$   
 (3) if  $x < y$                             (4) if  $x \leq y$

(5) if  $x = y$  or no relation can be established between  $x$  and  $y$

41. I.  $2x^2 + x - 1 = 0$                             II.  $2y^2 + 13y + 15 = 0$   
 42. I.  $x^2 + 12x + 32 = 0$                             II.  $2y^2 + 15y + 27 = 0$   
 43. I.  $6x^2 - 17x + 12 = 0$                             II.  $7y^2 - 13y + 6 = 0$   
 44. I.  $x^2 - 82x + 781 = 0$                             II.  $y^2 = 5041$   
 45. I.  $6x^2 - 47x + 80 = 0$                             II.  $2y^2 - 9y + 10 = 0$

**Directions (46-50):** In the following multiple graphs production of wheat (in quintals) by three states – Bihar, Madhya Pradesh and Punjab have been given. Study the following graphs carefully to answer the questions.



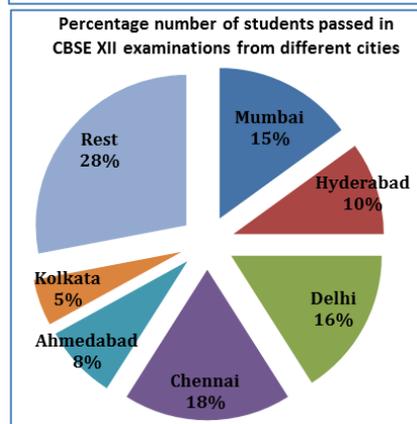
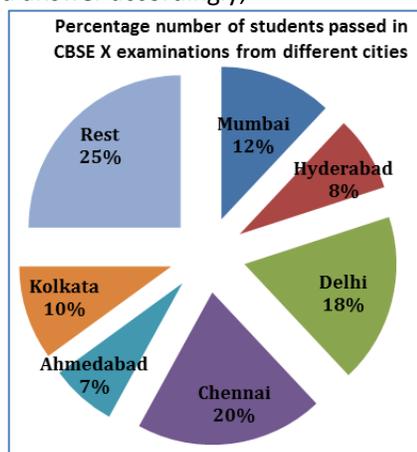
46. If the production of wheat by Madhya Pradesh in the years 2003, 2004, 2005 and 2007 increase by 30%, 40%, 45% and 40% respectively, what will be the overall percentage increase in the production of wheat in the state in the given years?  
 (1) 23% (2) 25% (3) 35%  
 (4) 16% (5) 19%
47. What was the average production of wheat by all three states in the year 2005? (in quintals)  
 (1)  $2866\frac{1}{3}$  (2)  $2866\frac{2}{3}$  (3)  $2688\frac{2}{3}$   
 (4)  $2688\frac{1}{3}$  (5) None of these
48. In the given years, what is the average production of wheat in Bihar? (in quintals)  
 (1) 3068 (2) 3076 (3) 3086  
 (4) 3088 (5) None of these
49. If the productions of wheat in Bihar in the years 2001, 2002, 2003 and 2004 increase by 20%, 25%, 28% and 35% respectively; what will be the percentage increase in the average production of the state for the given years?  
 (1) 35.7% (2) 15.5% (3) 40.7%  
 (4) 42.5% (5) None of these
50. By what per cent is the total production of wheat by three states in the years 2002, 2003 and 2004 more or less than that in the years 2005, 2006 and 2007?  
 (1) 2.5% (2) 2.6% (3) 2.9%  
 (4) 1.8% (5) None of these
51. A started a business by investing Rs. 8,000. After 6 months B joined him with some money. After a year the total profit was equally shared between the two. Find the amount invested by B.  
 1. Rs 10,000 2. Rs 12,000 3. Rs 16,000  
 4. Rs 18,000 5. None of these
52. There are 3 red balls, 4 white and 6 yellow. Two balls are drawn at random. What is the probability that none is red?  
 1.  $\frac{5}{19}$  2.  $\frac{2}{17}$  3.  $\frac{45}{76}$   
 4.  $\frac{15}{26}$  5. None of these
53. A and B can do a piece of work in 15 days and 20 days respectively. They start working on alternate days with B starting the work. In how many days the work will be completed.  
 A. 17 days B.  $18\frac{2}{3}$  days C.  $16\frac{1}{4}$  days  
 D.  $17\frac{1}{4}$  days E. None of these
54. The difference between compound interest and simple interest on a sum for 2 yrs at 10% per annum, when the interest is compounded annually is Rs 16. If the interest were compounded half yearly, the difference in two interests would be  
 A. Rs 24.81 B. Rs 26.90 C. Rs 31.61  
 D. Rs 32.40 E. None of these

55. A square sheet of paper is converted into a cylinder by rolling it along its length. What is the ratio of the base radius of cylinder to the side of the square?  
 1)  $7\sqrt{2}:22$  2) 7:22 3) 7:44  
 4) 22 : 7 5) None of these

**Directions (56-60):** What will come in place of question mark (?) in the following questions?

56.  $(\sqrt{5} - \sqrt{10})^2 + (\sqrt{2} + 5)^2 = (?)^3 - 22$   
 1)  $\sqrt{2}$  2) 2 3) 16  
 4) 8 5) None of these
57.  $55\% \text{ of } \sqrt{2116} \div 0.01 = ? \times 20$   
 1) 126.5 2) 126.6 3) 124.6  
 4) 125.4 5) None of these
58.  $\sqrt{12^2 \times 16 \div 24 + 193 + 7 \times 5} = (?)^2$   
 1)  $3\sqrt{2}$  2)  $4\sqrt{2}$  3)  $5\sqrt{2}$   
 4) 18 5) 32
59.  $\sqrt{31.36} \div \sqrt{0.64} \times 252 = (?)^2 \times 36$   
 1) 81 2) 64 3) -8  
 4) -7 5) 9
60.  $(1.69)^4 \div (2197 \div 1000)^3 \times (0.13 \times 10)^3 = (1.3)^{? - 2}$   
 1) 6 2) 2 3) 4  
 4) 0 5) None of these

**Direction (61-65):** Study the following graphs and table carefully and answer accordingly;



The following table shows the ratio of the number of boys and girls passing from different cities.

City	XII		XII	
	Boys	Girls	Boys	Girls
Delhi	2	3	3	5
Kolkata	9	8	7	8
Mumbai	4	7	3	5
Chennai	13	11	9	7
Ahmedabad	7	5	4	7
Hyderabad	12	13	5	8
Rest	5	9	7	8

61. In X exam, if there are 100 girls passing from Ahmedabad then find the approx. number of boys passing from Chennai in the same exam.  
 1) 3250                      2) 3430                      3) 3750  
 4) Data inadequate      5) 3715
62. If 9000 students passed in XII exam from Mumbai, then find the number of girls passing from Delhi in the same exam.  
 1) 9600                      2) 5760                      3) 6000  
 4) Data inadequate      5) None of these
63. Which of the following cities shows the maximum percentage of girls passing (with respect to total students passing in that city) in X examination?  
 1) Delhi                      2) Mumbai                      3) Chennai  
 4) Rest                      5) Hyderabad
64. If the difference between the number of boys passing from Chennai and that from Delhi in XII exam is 3630, find the total number of students passed in XII exam in 2013. '  
 1) 72000                      2) 88000                      3) 90000  
 4) Can't say                      5) None of these
65. In X exam, if 1.20 lakh students pass, then what will be the **approx.** number of boys passing in the remaining part of the country?
- 1) 10700                      2) 10720                      3) 10740  
 4) 10680                      5) 10760
66. The present ages of Amit and his father are in the ratio 2 : 5 respectively. Four years hence the ratio of their ages will become 5 : 11 respectively. What was the father's age five years ago?  
 (1) 40 years                      (2) 45 years                      (3) 30 years  
 (4) 35 years                      (5) None of these
67. Lisa started a business investing Rs. 12,000 along with Sunil with the 50% of Lisa's capital. After 5 months Abhay joined them with a capital of 75% of the initial capital of both Lisa and Sunil. At the end of the year the total profit was Rs. 4,410. What is the share of Sunil?  
 (1) Rs. 440                      (2) Rs. 720                      (3) Rs. 840  
 (4) Rs. 560                      (5) None of these
68. Two pipes can fill a tank in 20 and 24 mins respectively and a waste pipe can empty 3 gallons per minute. All the three pipes working together can fill the tank in 15mins. What is the capacity of the tank?  
 (1) 120 gallons                      (2) 100 gallons                      (3) 60 gallons  
 (4) 180 gallons                      (5) None of these
69. In Xth class the ratio of boys to girls is 62 : 38 and in XIIth the inverse ratio of the previous class is 25 : 75 , If there are total of 700 students including both Xth and XIIth and the ratio of students in them are 4 : 3 respectively. What is the ratio of number of girls passing from Xth to that of number of boys passing from XIIth?  
 (1) 152 : 75                      (2) 150 : 250                      (3) 142 : 235  
 (4) 225 : 150                      (5) 152 : 225
70. If the difference between the compound interest and the simple interest on a certain sum for 2 years at 8% p.a. is Rs. 32, then the sum is  
 (1) Rs. 5,000                      (2) Rs. 5,500                      (3) Rs. 6,000  
 (4) Rs. 5,250                      (5) None of these

### 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.

Frustration is a global cancer. It has spared no country. In some countries, frustration exists because these countries are populated by "have-nots". In other countries which are populated by 'haves', frustration is among them also because they do "haves". As far as India is concerned its education system is breeding more and more frustration among both students and teachers. And yet no one sees what can be done to make it more meaningful. Many reforms have been discussed at length but have come to

nothing for one reason or another. The authorities are now peddling the idea of autonomous colleges as a means of toning of teaching standards. They argue that by allowing certain colleges to introduce their own courses, hold seminars and above all, **evolve** their own method of assessing students, students will get a far better deal. Indeed, they make out that such colleges will have free hand in nearly everything except granting degrees. In theory, all this sounds attractive enough. But there is little to show that the managements concerned are keen on such reforms. Even today, nothing prevents a college from inviting guest speakers on specialised subjects or holding courses in English for vernacular students. But not a single

one of those who are now glamouring for autonomy has bothered to do so. It is a secret that colleges which may be 'freed' to an extent from university control are highly elitist: In Mumbai, for example, there is a big cultural gulf between city colleges and suburban colleges. If some of the former are now given a degree of autonomy, it will only **heighten** this disparity.

The answer to the **vexed** problem of declining standards in higher education does not lie in encouraging the growth of 'model' institution but in improving overall standards. This is of course easier said than done. Since more and more young people are seeking degrees, the only solution, however unpalatable it may sound, is drastically to reduce the number of those who are admitted to colleges. Even though there is political pressure on many state governments to build new colleges and to reserve more seats for backward classes, it will be sheer **folly** to expand such facilities recklessly without giving any thought the quality of education imparted. If admissions are made far more selective, it will automatically reduce the number of entrants. This should apply particularly to new colleges, many of which are little more than degree factories. Only they can the authorities hope to bring down the teacher-student ratio to manageable proportions. What is more, teachers should be given refresher courses every summer vacation to brush up their knowledge. Besides, if college managements increase the library budget it will help both staff and students a great deal. At the same time, however, it will be unfair to deny college education to thousands of young men and women unless employers stop insisting on degrees even for clerical jobs. For a start, why can't the Government disqualify graduates from securing certain jobs-say, Class III and IV posts? Once the degrees are delinked from jobs, at least in some important departments, it will make many young people think twice before joining college.

71. The author's chief concern seems to be—  
 (a) frustration among students  
 (b) spread of college education  
 (c) standard of education  
 (d) autonomy to colleges  
 (e) delinking of degrees
72. The author's attitude is—  
 (a) cynical (b) optimistic (c) critical  
 (d) conservative (e) constructive
73. What according to the passage, would be the result of granting autonomy to some colleges?  
 (a) The teacher-student ratio will come down  
 (b) Disparity between city and suburban colleges will increase  
 (c) College will multiply

- (d) Some colleges would start selling degrees  
 (e) All of these

74. Which of the following is the most significant feature of the scheme of autonomous colleges, according to the passage ?  
 (a) They can introduce new courses  
 (b) They can hold seminars  
 (c) They can evolve their method of assessment  
 (d) They can award degrees  
 (e) They can make admissions without restrictions
75. The author does not believe that  
 (a) colleges have the capacity to develop courses  
 (b) colleges have the expertise for assessment  
 (c) some colleges are only degree factories  
 (d) college managements are really keen on reforms  
 (e) some colleges are 'elitist'
76. To which of the following does the author give precedence ?  
 (a) Increasing library facilities  
 (b) Holding refresher courses for teachers  
 (c) Abolishing reservation for backward classes  
 (d) Stopping opening of new colleges  
 (e) Instituting entrance examinations..

**Directions (77 – 78):** Choose the word which is most nearly the **SAME** in meaning to the word given in **bold** as used in the passage.

77. **VEXED**  
 (a) Annoying (b) Recurring (c) Unresolvable  
 (d) Complex (e) Dangerous
78. **EVOLVE**  
 (a) Introduce (b) Start (c) develop  
 (d) Abandon (e) Establish

**Directions (79 – 80):** Choose the word which is most **OPPOSITE** in meaning of the word given in bold as used in the passage.

79. **FOLLY**  
 (a) Right (b) Exact (c) Mistake  
 (d) Action (e) Wisdom
80. **HEIGHTEN**  
 (a) Widen (b) Decrease (c) Strengthen  
 (d) Dissolve (e) Disappear

**Directions (81-85):** In each of the following sentences there are two blank spaces. Below each sentence there are five pairs of words denoted by numbers a), b), c), d) and e). Find out which pair of words can be filled up in the blanks in the sentence in the same sequence to make it meaningfully complete.

81. \_\_\_\_\_ the activities of moneylenders could have an adverse impact on those who \_\_\_\_\_ access to bank credit.  
 (a) Encouraging, enjoying (b) Permitting, denied

- (c) Confining, entitled (d) Promoting, benefit  
(e) Curbing, lack
82. The Budget announced substantial \_\_\_\_\_ of \_\_\_\_\_ to critical sectors like education and healthcare.  
(a) expenditure, capital (b) sanction, initiative  
(c) allotment, security (d) disbursement, investment  
(e) allocation, resources
83. The government has decided not to make any \_\_\_\_\_ changes in the country's tax \_\_\_\_\_.  
(a) sweeping, regime (b) transparent, hike  
(c) drastically, net (d) constitutional, revenue  
(e) existing, structure
84. The RBI has \_\_\_\_\_ a statement that the implementation of KYC norms should not lead to the denial of banking \_\_\_\_\_ to customers.  
(a) released, asset (b) issued, services  
(c) drafted, clearing (d) made, tariff  
(e) notified, transaction
85. The new scheme \_\_\_\_\_ all persons with disabilities defined \_\_\_\_\_ the Disabilities Act.  
(a) discriminates, according (b) recognises, beneath  
(c) profits, within (d) covers, under  
(e) promises,

**Directions (86-90):** Given below are six sentences, i.e. A), B), C), D), E) and F). Arrange them in a proper order so as to form a meaningful paragraph and then answer the following questions.

- (A) As a result the non-stop tensions and anxieties at work often result in health-related problem.  
(B) The truth is we cannot change the world of work.  
(C) We spend at least half our waking hours at work.  
(D) We have therefore to take charge and transform the way in which we respond to our work environment.  
(E) So how can we control these problems and perform at work?  
(F) We can change the way we feel and deal with various situations.
86. Which of the following should be the **LAST (SIXTH)** sentence after rearrangement?  
(a) (B) (b) (C) (c) (D) (d) (E) (e) (F)
87. Which of the following be the **FIFTH** sentence after rearrangement?  
(a) (B) (b) (C) (c) (D) (d) (E) (e) (F)
88. Which of the following should be the **SECOND** sentence after rearrangement?  
(a) (A) (b) (B) (c) (C) (d) (D) (e) (E)
89. Which of the following should be the **FIRST** sentence after rearrangement?  
(a) (A) (b) (B) (c) (C) (d) (D) (e) (E)

90. Which of the following should be the **FOURTH** sentence after rearrangement?

(a) (A) (b) (B) (c) (C) (d) (D) (e) (E)

**Directions (91-95):** Which of the phrases (a), (b), (c) and (d) given below should replace the phrase given in bold in the following sentence to make the sentence grammatically meaningful and correct. If the sentence is correct as it is and 'No correction is required.' mark (e) as the answer.

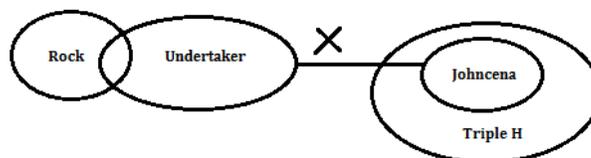
91. **Each of the loan** must be approved by the Branch Manager.  
(a) Every loan (b) Each one of the loan  
(c) Any of the loan (d) All of the loan  
(e) No correction required
92. The issue was **taken before** the Municipal Corporation meeting last week.  
(a) Taking place at (b) Taken after (c) Being taken in  
(d) Taken up at (e) No correction required
93. He **has asked** for the names of those employees involved in the project.  
(a) had asked (b) having asked about  
(c) was asked that (d) is asking  
(e) No correction required
94. **Considerate** the traffic, it is better to leave for the airport an hour early.  
(a) While considering (b) Consideration of  
(c) Considering (d) Being considerate to  
(e) No correction required
95. He is a good leader, **knowing that** to motivate his employees to achieve.  
(a) That known when (b) Who knows how  
(c) Which knows how (d) Knowing what  
(e) No correction required

**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.

Everybody must have some aim in life. An animal's life is a... (96)... without a rudder. The choice of profession is no less important than choice of one's life partner. Having the once chosen one's profession and that too very judiciously and thoughtfully one must... (97)...full time and energy and all honest and valid means to achieve it. It often requires great patience, ... (98)...and sacrifice. This one can do only if one is... (99)...that one is cut... (100)...for it and the profession concerned is really a satisfying one.

96. (a) mission (b) car (c) ship  
(d) person (e) goal
97. (a) plan (b) encourage (c) devote  
(d) enlarge (e) manage
98. (a) projection (b) perseverance (c) submission

- (d) enlightenment (e) ambition  
 99. (a) convinced (b) accustomed (c) positioned  
 (d) exposed (e) aligned  
 100. (a) out (b) through (c) with  
 (d) open (e) in

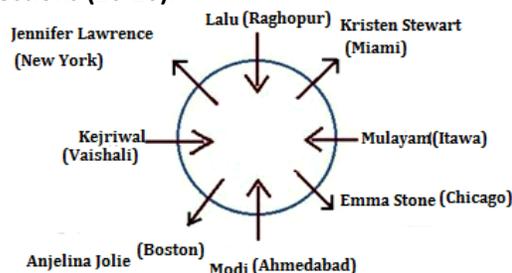


**Directions (11-15):**

- is → mo  
 Aniket → ti  
 and → su  
 handsome/smart → zo / ra  
 great → nic  
 narendra → ye  
 leader → fa  
 welcome/brave → koo/da  
 modi → chi  
 polite → phi

11. (d)  
 12. (d)  
 13. (e)  
 14. (c)  
 15. (b)

**Directions (16-20):**

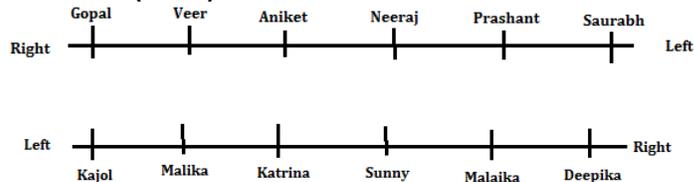


16. (c)  
 17. (c)  
 18. (b)  
 19. (e)  
 20. (a)

**Directions (21-25):**

21. (b)  
 22. (e)  
 23. (a)  
 24. (d)  
 25. (a)

**Directions (26-30):**



26. (d)  
 27. (b)  
 28. (b)

**Solutions**

**Directions (1-5):**

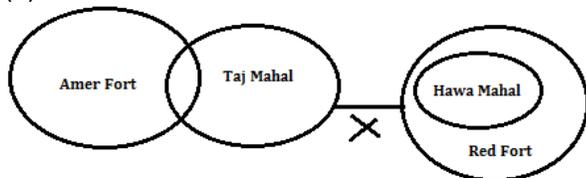
Person	Colour	Floor
Chanda Kochhar	Sky Blue	II
Arundhati Bhattacharya	Yellow	IV
Shikha Sharma	Blue	III
Nita Ambani	Purple	I
Naian Lal Kidwai	Red	V
Usha Ananthsubramanian	Green	VII
Vijayalakshmi Iyer	Pink	VI

1. (c)  
 2. (a)  
 3. (b)  
 4. (b)  
 5. (c)

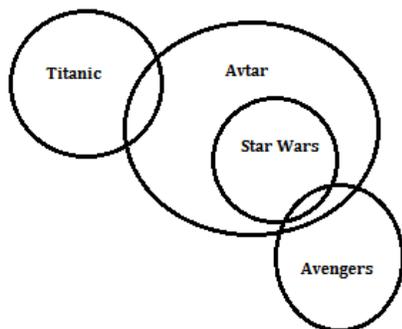
**Directions (6-10):**

**For(6-7):**

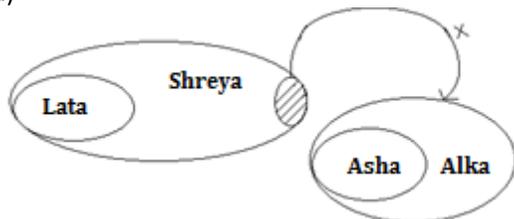
6. (d)



7. (b)  
 8. (e)



9. (a)

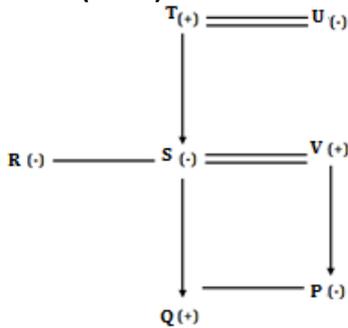


10. (e)

29. (c)

30. (b)

Directions (31-33):

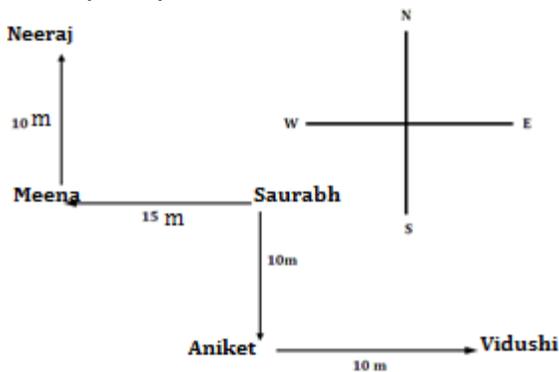


31. (a)

32. (d)

33. (b)

Directions (34-35):



34. (b)

35. (b)

36. (4) The pattern of the number series is :

$$15 + 6 = 21$$

$$21 + 18 (= 6 + 12) = 39$$

$$39 + 38 (= 18 + 20) = 77$$

$$77 + 66 (= 38 + 28) = 143$$

$$143 + 102 (= 66 + 36) = 245$$

37. (1) The pattern of the number series is :

$$33 + 6 = 39$$

$$39 + 18 (= 6 + 12) = 57$$

$$57 + 30 (= 18 + 12) = 87$$

$$87 + 42 (= 30 + 12) = 129$$

$$129 + 54 (= 42 + 12) = 183$$

38. (1) The pattern of the number series is :

$$19 - 15 = 4 = 2^2$$

$$83 - 19 = 64 = 4^3$$

$$119 - 83 = 36 = 6^2$$

$$631 - 119 = 512 = 8^3$$

$$\therefore ? = 631 + 10^3 = 631 + 100 = 731$$

39. (3) The pattern of the number series is :

$$19 + 1 \times 7 = 19 + 7 = 26$$

$$26 + 2 \times 7 = 26 + 14 = 40$$

$$40 + 4 \times 7 = 40 + 28 = 68$$

$$68 + 8 \times 7 = 68 + 56 = 124$$

$$124 + 16 \times 7 = 124 + 112 = 236$$

40. (5) The pattern of the number series is :

$$69 - 43 = 26$$

$$58 - 69 = -11$$

$$84 - 58 = 26$$

$$73 - 84 = -11$$

41. (1);  $x = -1, \frac{1}{2}, y = -5, \frac{-3}{2}; x > y$

42. (5);  $x = -8, -4; y = \frac{-9}{2}, -3; \text{No relation}$

43. (1);  $x = \frac{3}{2}, \frac{4}{3}; y = 1, \frac{6}{7}; x > y$

44. (5);  $x = 11, 71; y = \pm 71; \text{No relation.}$

45. (2);  $x = \frac{16}{3}, \frac{5}{2}; y = 2, \frac{5}{2}; x \geq y$

46. (1); Increase in wheat production

$$\text{Year 2003} = 2900 \times \frac{130}{100} = 3770$$

$$\text{Year 2004} = 2900 \times \frac{140}{100} = 4060$$

$$\text{Year 2005} = 3000 \times \frac{145}{100} = 4350$$

$$\text{Year 2007} = 2900 \times \frac{140}{100} = 4060$$

$$\text{Total earlier production} = 2400 + 3300 + 2900 + 2900 + 3000 + 2400 + 2900 = 19800$$

$$\text{New Wheat Production} = 2400 + 3300 + 3770 + 4060 + 4350 + 2400 + 4060 = 24340$$

$$\% \text{ inc} = \frac{4540}{19800} \times 100 = 23\%$$

47. (2); Average =  $\frac{2100+3000+3500}{3} = 2866\frac{2}{3}$

48. (3); Average =  $\frac{2800+2700+2800+3800+2100+3800+3600}{7} = 3086$

49. (2); Total increase in wheat production

$$\text{Year 2001} = 3360$$

$$\text{Year 2002} = 3375$$

$$\text{Year 2003} = 3584$$

$$\text{Year 2004} = 5130$$

$$\text{Total new production} =$$

$$3360 + 3375 + 3584 + 5130 + 2100 + 3800 + 3600 = 24949$$

$$\text{Total earlier production} =$$

$$2800 + 2700 + 2800 + 3800 + 2100 + 3800 + 3600 = 21600$$

$$\text{Difference} = 3349$$

$$\% \text{ inc} = \frac{3349}{21600} \times 100 = 15.5\% \text{ (approx)}$$

50. (4); Total production of wheat of three states in the

$$\text{Year 2002, 2003, and 2004} = 28100$$

$$\text{Total production of wheat by three states}$$

$$\text{In the years 2005, 2006 and 2007} = 27,600$$

$$\text{Req}\% = \frac{28100 - 27600}{27600} \times 100$$

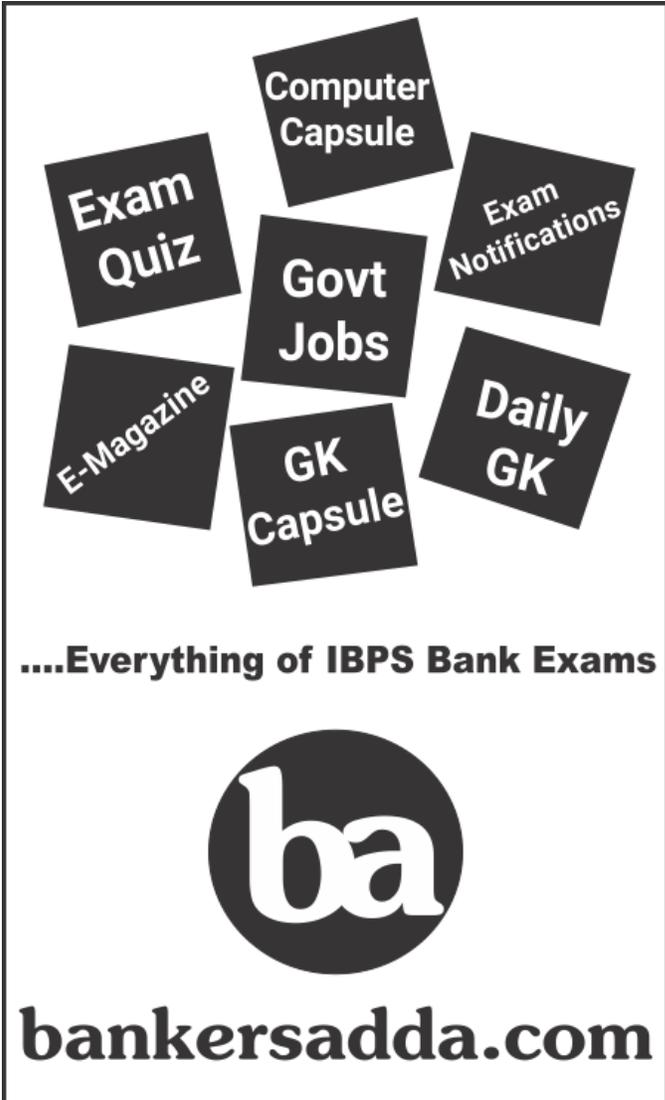
$$= 1.8\% \text{ approx. (more)}$$

51. (3) 8000 is invested for 12 months, B's amount (x) is invested for 6 months  
 So ratio of profits =  $8000 \times 12 : x \times 6 = 16000 : x$   
 Since the profits are equally divided, so  $16000/x = 1/1$ ,  
 this gives  $x = 16000$
52. (4) There are 10 balls other than red, and total 13 balls  
 2 balls are drawn, so  
 Probability that none is red =  $10C2 / 13C2$   
 $= 10 \times 9 / 13 \times 12 = 15/26$
53. (4); L.C.M = (15, 20) = 60  
 Total work = 60  
 A's efficiency =  $\frac{60}{15} = 4$   
 B's efficiency =  $\frac{60}{20} = 3$   
 2 days work (A+B) =  $4+3=7$   
 Multiply both by 8.  
 16 days work (A+B) = 56  
 Remaining work =  $60-56=4$   
 Now B's turn on 17<sup>th</sup> day, he does work with efficiency  
 3  
 Now remaining work =  $4-3 = 1$   
 A will complete 1 work in  $\frac{1}{4}$  days  
 So, total =  $17\frac{1}{4}$
54. (1);  $D = P \left(\frac{r}{100}\right)^2$   
 $16 = P \left(\frac{10}{100}\right)^2$   
 $P = 1600$   
 $S.I = \frac{1600 \times 10 \times 2}{100} = 320$   
 New S.I =  $1600 \left(1 + \frac{5}{100}\right)^4 - 1600 = 344.81$   
 Difference = 24.81
55. (3); Let the side of the square be x.  
 $\therefore$  circumference of base of cylinder = x  
 $\therefore$  radius =  $x \times \frac{7}{44} = \frac{7x}{44}$   
 $\therefore$  ratio =  $\frac{7x}{44x} = 7 : 44$
56. (5)  $5 + 10 - 2\sqrt{20} + 2 + 25 + 10\sqrt{2} = (?)^3 - 22$   
 $42 - 10\sqrt{2} + 10\sqrt{2} = (?)^3 - 22$   
 $(?)^3 = 64$   
 $? = 4$
57. (1)  $\frac{55}{100} \times 46 \div \frac{1}{100} = ? \times 20$   
 $? \times 20 = 2530$   
 $? = 126.5$
58. (1)  $\sqrt{324} = (?)^2$   
 $(?)^2 = 18 \Rightarrow ? = \sqrt{18} = 3\sqrt{2}$
59. (4)  $5.6 \div 0.8 \times 252 = (?)^2 \times 36$   
 $7 \times 252 = (?)^2 \times 36$   
 $(?)^2 = \frac{1764}{36} = 49$   
 $? = 7$  or  $-7$
60. (3)  $\frac{1.69 \times 1.69 \times 1.69 \times 1.69 \times 1.3 \times 1.3 \times 1.3}{2.197 \times 2.197 \times 2.197} = (1.3)^{? - 2}$   
 $1.69 = (1.3)^{? - 2} \Rightarrow (1.3)^2 = (1.3)^{? - 2}$   
 $? - 2 = 2$   
 $? = 4$
61. (5);  $\frac{1000}{5} \times \frac{12}{7} \times 100 \times \frac{20}{100} \times \frac{13}{24} = 3715$  (approx)
62. (3);  $\frac{9000}{15} \times 100 \times \frac{16}{100} \times \frac{5}{8} = 6000$
63. (4); Ans will be rest.
64. (2); Let the total no of passing students be 'x'  
 $18\% \text{ of } x \times \frac{9}{10} - 16\% \text{ of } x \times \frac{3}{8} = 3630$   
 $x = 88000$
65. (2);  $25\% \text{ of } 1,20,00 \times \frac{5}{14} = 10720$  (approx)
66. (4)
67. (3) Ratio of investment of Lisa and Abhay =  $12000 \times 12$   
 $9000 \times 7 = 144:63$   
 $\Rightarrow$  Ratios of their profits = 144:63  
 $\Rightarrow$  Share of Sunil's profit =  $\frac{144}{207} \times 4416 = \text{Rs.} 3072$
68. (1) work done by a waste pipe in 1 min  
 $= \frac{1}{15} - \left(\frac{1}{20} + \frac{1}{24}\right) = \left(\frac{1}{15} - \frac{11}{120}\right) = -\frac{1}{40}$   
 $\therefore$  volume of  $\frac{1}{40}$  part = 3 gallons  
 volume of whole part =  $(3 \times 40)$  gallons = 120 gallons
69. (5) 40% minimum passing marks for boys  
 $483 + 117 = 600$   
 $\Rightarrow 1\% = \frac{600}{40}$   
 $\Rightarrow 100\% = \frac{600}{40} \times 100 = 1500$   
 Minimum passing marks for girls = 35% of 1500 =  $35 \times 13 = 525$   
 Solutions (21-25)
70. (1) Sum = difference between interest  $\times (100/r)^2$   
 $= 32 \times (100/8)^2 = 32 \times \frac{625}{4} = 5000$
71. (c); Refer to first paragraph of the passage.
72. (e); The author's attitude is constructive because author intends to improve standard of education which he has mentioned this clearly in the passage.
73. (b); Refer to first paragraph of the passage. "If some of the former are now given a degree of autonomy, it will only heighten this disparity."
74. (c); "They argue that by allowing certain colleges to introduce their own courses, hold seminars and above all, evolve their own method of assessing students, students will get a far better deal."
75. (d); Refer to the first paragraph of the passage. "And yet no one sees what can be done to make it more meaningful. Many reforms have been discussed at

length but have come to nothing for one reason or another.”

76. (b); Refer to last paragraph of the passage. “What is more, teachers should be given refresher courses every summer vacation to brush up their knowledge.”
77. (d); **VEXED** means difficult and much debated. So, complex is the word which is similar in meaning to it.
78. (c); **EVOLVE** means develop gradually. So, develop is the word which is similar in meaning to it.
79. (e); **FOLLY** means lack of good sense. So, wisdom is the word which is opposite in meaning to it.
80. (b); **HEIGHTEN** means to make or become more intense. So, Decrease is the word which is opposite in meaning to it.
81. (d); ‘permitting, denied’ is the correct use.  
**Permitting** means officially allow (someone) to do something.  
**Denied** means state that one refuses to admit the truth or existence of.
82. (e); ‘allocation, resources’ is the correct use.  
**Allocation** means an amount of a resource assigned to a particular recipient.  
**Resources** mean a stock or supply of money, materials, staff, and other assets.
83. (d); ‘constitutional, revenue’ is the correct use.  
**Constitutional** means relating to an established set of principles governing a state.  
**Revenue** means income, especially when of an organization and of a substantial nature.
84. (b); ‘issued, services’ is the correct use.  
**Issued** means supply or distribute (something) for use or sale.  
**Services** mean the action of helping or doing work for someone.
85. (d); ‘covers, under’ is the correct use.  
**Covers** mean to put or spread something over something.  
For questions (86-90); The correct sequence to form meaningful paragraph is **CABEFD**.
86. (c); D
87. (e); F
88. (a); A
89. (c); C
90. (b); B
91. (a); Replace ‘Each of the loan’ with ‘Every loan’.
92. (d); Replace ‘taken before’ with ‘taken up at’.
93. (e); No correction required.

94. (c); Replace ‘Considerate’ with ‘Considering’.
95. (b); Replace ‘knowing that’ with ‘Who knows how’.
96. (c)
97. (c)
98. (b)
99. (a)
100. (a)



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