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Q1. While selling a watch, a shopkeeper gives a discount of 15%. If he gives a discount of 20%, he earns Rs 51 less as profit. What is the original price of the watch?

- (a) Rs 920
- (b) Rs 985
- (c) Rs 1125
- (d) Rs 1020
- (e) None of these

Q2. A bus travels at 75 km/h without any stoppage. But due to stoppages at intermediate stands its average speed becomes 63 km/h. How much minute bus stop every hour?

- (a) 15 min
- (b) 12.5 min
- (c) 12 min
- (d) 9.6 min
- (e) 7.5 min

Q3. Two trains running in opposite directions to each other, cross a man standing on the platform in 30 sec and 12 sec respectively and they cross each other in 20 seconds. Find the ratio of their speed.

- (a) 2 : 5
- (b) 6 : 5
- (c) 4 : 5
- (d) 3 : 4
- (e) 7 : 5

Q4. Pankaj walked at 5 km/h for certain part of the journey and then he took an auto for the remaining part of the journey and travelling at 25 km/h. He took 10 hours for the entire journey, then find what part of journey did he travelled by auto if the average speed of the entire journey be 17 km/h:

- (a) 750 km
- (b) 100 km
- (c) 150 km
- (d) 200 km
- (e) 250 km

Q5. A car driver covers a distance between two cities at a speed of 60 kmph and on the return his speed is 40 kmph. He goes again from the 1st to the 2nd city at twice the original speed and returns at half the original return speed. Find his average speed for the entire journey.

- (a) 55 kmph
- (b) 50 kmph
- (c) 48 kmph
- (d) 40 kmph
- (e) 45 kmph



Directions (6-10): What will come in place of question mark (?) in the following number series?

Q6. 6, 9, 18, 45, 135, ?

- (a) 470
- (b) 472.5
- (c) 493.75
- (d) 476.5
- (e) 439

Q7. 66, 35, 72, 38, 78, ?

- (a) 39
- (b) 158
- (c) 37
- (d) 41
- (e) 40

Q8. 29, 33, 60, 76, 201, ?

- (a) 391
- (b) 139
- (c) 237
- (d) 211
- (e) 229



Q9. 5, 7.25, 13.5, 25.75, 46, ?

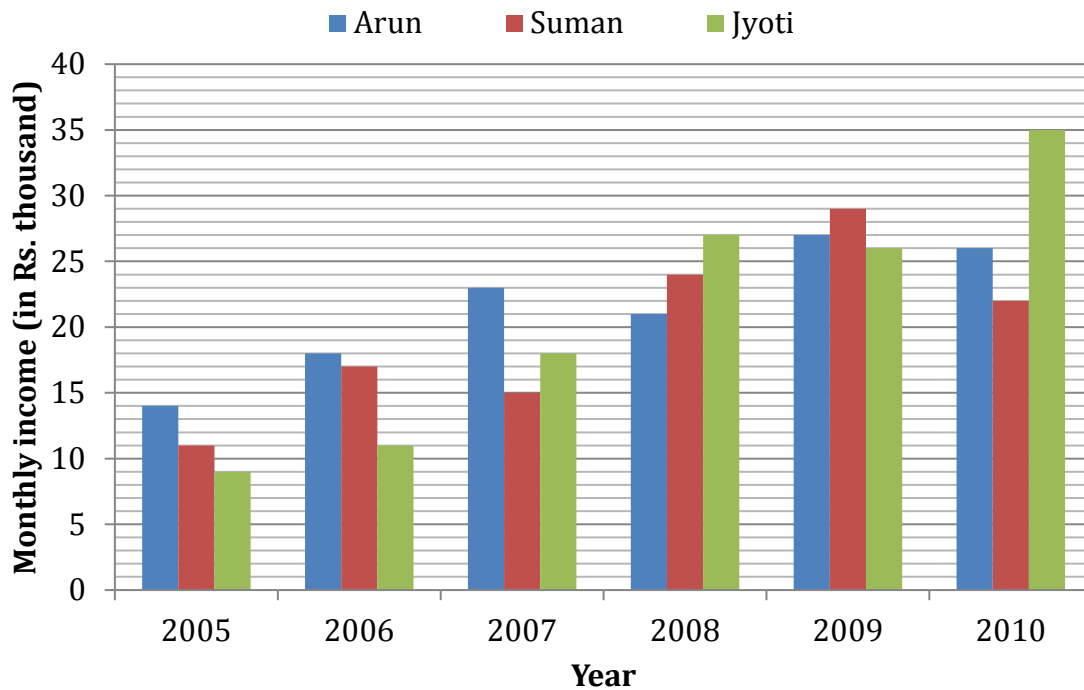
- (a) 70.25
- (b) 71.25
- (c) 73.25
- (d) 75.25
- (e) 76.25

Q10. 138, 269, 532, 1059, 2114, ?

- (a) 4405
- (b) 4025
- (c) 4252
- (d) 4225
- (e) 4325

Directions (11-15): Study the following Bar-graph carefully to answer the questions that follow.

The graph shows monthly income (in thousand) in six different years by Arun, Suman and Jyoti.



Q11. What was the difference between the average monthly salary of Arun in all the years together and Suman's monthly income in the year 2007?

- (a) Rs. 5.5 thousand
- (b) Rs. 6.5 thousand
- (c) Rs. 7.5 thousand
- (d) Rs. 8.5 thousand
- (e) None of these

Q12. What is the ratio of Arun's monthly income in the year 2006, Suman's monthly income in the year 2007 and Jyoti's monthly income in the year 2005?

- (a) 6 : 3 : 5
- (b) 6 : 4 : 5
- (c) 5 : 6 : 4
- (d) 5 : 4 : 7
- (e) 6 : 5 : 3

Q13. In which year was the difference between Jyoti's and Arun's monthly income the second highest?

- (a) 2005
- (b) 2006
- (c) 2007
- (d) 2009
- (e) 2010

Q14. The monthly income of Suman in the year 2009 was approximately what percentage of the monthly income of Jyoti in the year 2010?

- (a) 72
- (b) 89
- (c) 83
- (d) 67
- (e) 95

Q15. What was the percentage increase in the monthly income of Jyoti in the year 2008 as compared to the previous year?

- (a) 50%
- (b) 150%
- (c) 160%
- (d) 60%
- (e) 70%

Q16. Two pipes A and B can fill a tank in 24 minutes and 32 minutes respectively. If both the pipes are opened simultaneously, after how much time should B be closed so that the tank is full in 18 minutes?

- (a) 6 minutes
- (b) 8 minutes
- (c) 10 minutes
- (d) 11 minutes
- (e) 13 minutes

Q17. Two pipes A and B can fill a tank in 20 hours and 25 hours respectively and a third pipe C can empty the tank in 50 hours. All of three pipes opened together and after sometimes pipe C is closed. If total time to fill the tank from beginning is 13 hours, find after how much time pipe C was closed?

- (a) 11 hrs
- (b) 9 hrs
- (c) 8.5 hrs
- (d) 7.5 hrs
- (e) 10.5 hrs.

Q18. There are 6 filling pipes each capable of filling a cistern alone in 16 minutes and 4 emptying pipes each capable of emptying a cistern alone in 20 minutes. All pipes are opened together and as a result, tank fills 28 litres of water per minute. Find the capacity of the tank.

- (a) 145 l
- (b) 160 l
- (c) 240 l
- (d) 180 l
- (e) 154 l



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Q19. A pipe can fill a cistern in 12 min and another pipe can fill it in 15 min but a third pipe can empty it in 6 minutes. The first two pipes are kept open for 5 minutes in the beginning and then the third pipe is also opened. Time taken to empty the cistern is:

- (a) 38 minutes
- (b) 22 minutes
- (c) 42 minutes
- (d) 45 minutes
- (e) 60 minutes

Q20. Taps A, B and C are attached with a tank and velocity of water coming through them are 42 litre per hours, 56 litre per hours and 48 litre per hours, respectively. A and B are inlets and C is outlet. If all the taps are opened simultaneously, tank is filled in 16 hours. What is the capacity of the tank?

- (a) 2346 litres
- (b) 1600 litres
- (c) 800 litres
- (d) 960 litres
- (e) 2330 litres

Direction (21-25): Simplify the given questions and find the exact value.

Q21. $(9)^3 \times 6 \div 9 + (7)^3 + 171 = 100 + (?)^3 - 431$

- (a) 12
- (b) 9
- (c) 13
- (d) 10
- (e) 11

Q22. $45\% \text{ of } 2770 + \frac{5}{4} \text{ of } 1824 = 5 \times ?$

- (a) 701.2
- (b) 705.3
- (c) 709.1
- (d) 704.5
- (e) 706.3

Q23. $\frac{675}{3^3} + 112 \times 1.5 - 42\% \text{ of } 350 = ?$

- (a) 42
- (b) 48
- (c) 44
- (d) 40
- (e) 46

Q24. $1\frac{1}{3} + 2\frac{1}{6} - 3\frac{1}{9} = \frac{2}{?}$

- (a) $4\frac{1}{3}$
- (b) $5\frac{1}{3}$
- (c) $2\frac{1}{7}$
- (d) $5\frac{1}{7}$
- (e) $4\frac{1}{7}$

Q25. $[(28 \times 176) \div 16 - 615 \times 16 \div 240] = ? - 11$

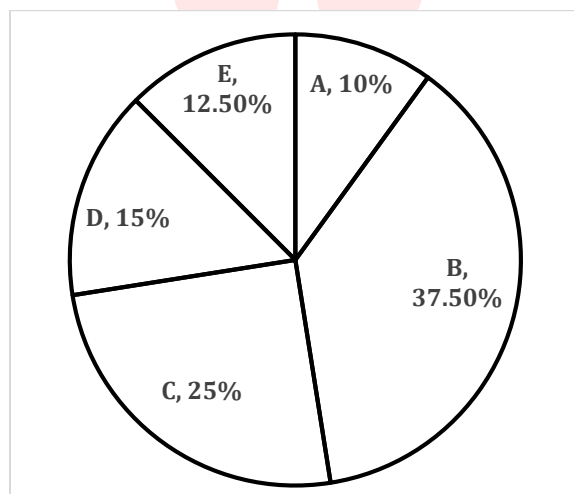
- (a) 278
- (b) 266
- (c) 280
- (d) 267
- (e) 279

Directions (26-30): pie chart given below shows the percentage distribution of females in five cities and table shows the total number of literates (male + female) in these five cities.

Total population of any city = Male + Female

Total males = Literate + Illiterate

Total female = Literate + Illiterate



| City | Total literate (Male + Females) |
|------|---------------------------------|
| A | 55000 |
| B | 230000 |
| C | 172000 |
| D | 99000 |
| E | 83000 |

Q26. If ratio of total literate female to total illiterate female in city A is 5 : 3 and total literate males in city A are 75% of total females of city A, find no of literate males in city A.

- (a) 30000
- (b) 25000
- (c) 20000
- (d) 45000
- (e) 35000

Q27. If ratio of literate male to literate female in city C and E are 45 : 41 and 45 : 38 respectively then what is the ratio of literate female of city C to literate female of city E.

- (a) 53 : 17
- (b) 43 : 17
- (c) 41 : 19
- (d) 40 : 19
- (e) 50 : 21

Q28. If in city B total literate females are $9\frac{1}{11}\%$ more than literate males and ratio of literate male to illiterate male is 11 : 3 then total males in city B are what percent of total literate female of city B.

- (a) $119\frac{1}{3}\%$
- (b) $117\frac{2}{3}\%$
- (c) $115\frac{1}{2}\%$
- (d) $111\frac{2}{3}\%$
- (e) $116\frac{2}{3}\%$




Q29. Total male and female in city D is 145000 if total illiterate female in city D are equal to total literate female in city D then find the difference in number of literate males and illiterate male in city D

- (a) 55000
- (b) 53000
- (c) 57000
- (d) 60000
- (e) 50000

Q30. If total females in all six cities is 400000 and in city E total female literate are $84\frac{4}{9}\%$ of total literate males then what is the ratio of literate male in city E to total illiterate females in city E.

- (a) 15 : 4
- (b) 12 : 5
- (c) 7 : 2
- (d) 17 : 3
- (e) 16 : 5



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Directions (31-35): What should come in place of the question mark (?) in the following number series?

Q31. 3, 52, 88, 113, 129, ?

- (a) 148
- (b) 142
- (c) 133
- (d) 145
- (e) 138

Q32. 2, 3, 8, ?, 112, 565

- (a) 36
- (b) 14
- (c) 27
- (d) 45
- (e) 54

Q33. 6, 4, 8, 23, ?, 385.25

- (a) 84.5
- (b) 73
- (c) 78.5
- (d) 82
- (e) 86

Q34. 8, 64, 216, 512, ?, 1728

- (a) 729
- (b) 1331
- (c) 684
- (d) 1000
- (e) 1004

Q35. 1, 1, 2, 6, 24, 120, 720, ?

- (a) 4050
- (b) 5060
- (c) 5040
- (d) 6050
- (e) 4455

Q36. The ages of Ranjana and Rakhi are in the ratio of 15 : 17 respectively. After 6 yr the ratio of their ages will be 9 : 10. What will be the age of Ranjana after 6 yr?

- (a) 40 yr
- (b) 30 yr
- (c) 34 yr
- (d) 36 yr
- (e) 38 yr



Q37. A tap can fill a tank in 16 minutes and another can empty it in 8 minutes. If the tank is already $\frac{1}{2}$ full and both the taps are opened together, will the tank be filled or emptied? How long will it take before the tank is either filled or emptied completely as the case may be?

- (a) Emptied ; 16 min
- (b) Filled ; 8 min
- (c) Emptied ; 8 min
- (d) Filled; 12 min
- (e) None of these

Q38. In how many different ways can the letters of the word CRIME be arranged?

- (a) 120
- (b) 300
- (c) 72
- (d) 44
- (e) 160

Directions (39-40): two fair coins are tossed. Find the probability of obtaining

Q39. 2 Heads

- (a) $\frac{1}{3}$
- (b) $\frac{2}{3}$
- (c) $\frac{1}{2}$
- (d) $\frac{1}{4}$
- (e) $\frac{3}{4}$

Q40. 1 Head and 1 Tail

- (a) $\frac{1}{2}$
- (b) 1
- (c) $\frac{1}{3}$
- (d) $\frac{2}{3}$
- (e) $\frac{1}{4}$



Directions (41-45): Given below is the table showing the average marks scored by students of five various classes of five different schools in annual examination. Study the table carefully and answer the questions based on it.

| Schools→ Classes↓ | A | B | C | D | E |
|----------------------|-----|-----|-----|-----|-----|
| II | 320 | 250 | 280 | 350 | 260 |
| III | 280 | 340 | 400 | 450 | 180 |
| IV | 240 | 220 | 310 | 280 | 220 |
| V | 300 | 200 | 250 | 310 | 340 |
| VI | 260 | 180 | 360 | 260 | 410 |

Q41. Students of class IV in school D scored a total of 7000 marks while the students of class VI of same school scored a total of 10,400 marks. Find the difference in number of students of these two classes.

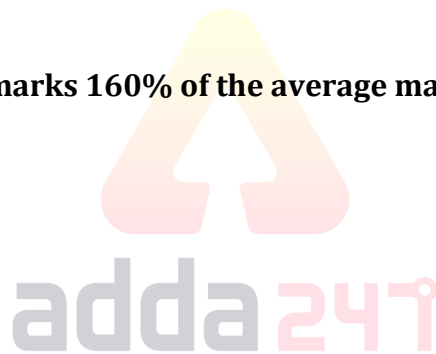
- (a) 25
- (b) 15
- (c) 40
- (d) 12
- (e) 18

Q42. In school E, the students of class V scored a total of 11900 marks. But in revision of mark sheet it was found that marks of five students were misread as 280, 370, 480, 450 and 320 instead of 420, 400, 310, 200 and 210 respectively. Find the new average (approximate) after correction:

- (a) 320
- (b) 325
- (c) 340
- (d) 330
- (e) 335

Q43. Which class has its average marks 160% of the average marks of class V of school B ?

- (a) Class II school D
- (b) Class V school E
- (c) Class VI school C
- (d) Class II school B
- (e) class II school A



Q44. Find the average of numerical value of average marks of class III, V, II and VI of schools C, E, D and A respectively.

- (a) 336.5
- (b) 327.5
- (c) 334.5
- (d) 337.5
- (e) 335.5

Q45. By approximately what percent the average marks of class VI of school C is more or less than that of class IV of school E ?

- (a) 62%
- (b) 60%
- (c) 64%
- (d) 68%
- (e) 55%

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Q46. The difference between compound interest and simple interest on a sum for 2 years 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 will be:

- (a) Rs. 24.81
- (b) Rs. 31.61
- (c) Rs. 32.40
- (d) Rs. 26.90
- (e) None of these

Q47. How many four digits numbers greater than 5000 can be made using the digits 0, 2, 3, 5 together with repetition.

- (a) 56
- (b) 63
- (c) 72
- (d) 60
- (e) None of these

Q48. What is the probability of choosing three pink balls out of 5 pink and 4 red balls ?

- (a) $\frac{11}{42}$
- (b) $\frac{5}{42}$
- (c) $\frac{37}{42}$
- (d) $\frac{1}{6}$
- (e) None of these

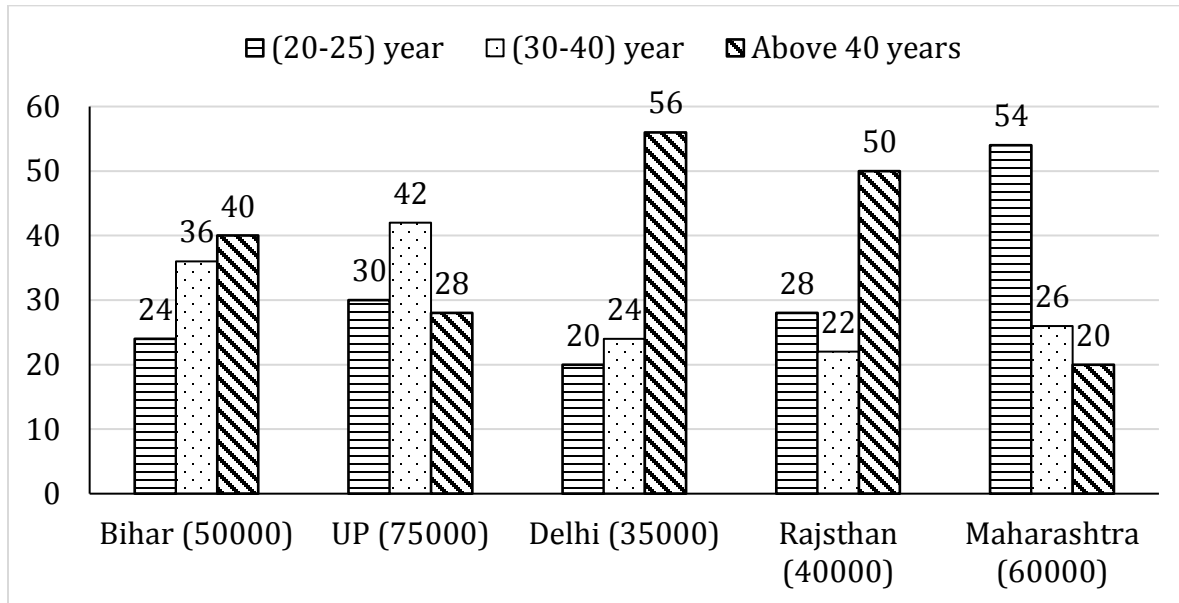
Q49. The distance between 2 places R and S is 42 km. Anita starts from R with a uniform speed of 4 km/h towards S and at the same time Romita starts from S towards R also with some uniform speed. They meet each other after 6 hours. The speed of Romita is

- (a) 18 km/hr
- (b) 20 km/hr
- (c) 3 km/hr
- (d) 8 km/hr
- (e) None of these

Q50. Two persons A and B are standing at point P and Q respectively. They both started to travel towards each other. Ratio of speed of A and B is 2 : 3. If A travels for 2 hour and B for 3 hours it is found that one has travelled 50 km more than the other. Find the sum of speeds of both. A and B.

- (a) 50 km/h
- (b) 40 km/h
- (c) 60 km/h
- (d) 55 km/h
- (e) 35 km/h

Directions (51-55): The following bar graph shows the percentage of voters of different age group from five different cities of India who casted their votes in Parliament election in 2014. The total no. of voters is also mentioned with each city. Study the bar graph carefully to answer the questions that follow.



Q51. Find the average no. voters of age groups (30-40) years from all cities together.

- (a) 16,640
- (b) 16,460
- (c) 14,460
- (d) 18,460
- (e) 16,040

Q52. Total no. of voters of age group (20-25) years from Bihar and Delhi together is what percent more or less than the total no. of voters of age group (20-25) years from UP and Rajasthan together who casted their votes in the election (approximately)?

- (a) 44%
- (b) 40%
- (c) 34%
- (d) 54%
- (e) 47%

Q53. Find the total no. of voters of age group above 40 years who casted their votes from all the cities together.

- (a) 94,200
- (b) 94,600
- (c) 90,600
- (d) 92,600
- (e) 96,200

Q54. What is the ratio of no. of voters of age group (30–40) years who casted their votes from UP and Rajasthan together to the total no. of voters of same age group from Delhi and Maharashtra together who casted their votes in the election?

- (a) 203 : 240
- (b) 240 : 403
- (c) 403 : 240
- (d) 240 : 203
- (e) None of these

Q55. If 20% votes from each city were declared invalid, then find the total no. of valid votes casted by the voters in Parliament election.

- (a) 20.8 lac
- (b) 2.08 lac
- (c) 1.08 lac
- (d) 3.08 lac
- (e) 2.008 lac

Directions (56-60): In these questions, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate option.

Give answer:

- (a) If $x > y$
- (b) If $x \geq y$
- (c) If $x < y$
- (d) If relation between x and y cannot be determined
- (e) If $x \leq y$

Q56. I. $2x^2 + 19x + 45 = 0$

II. $2y^2 + 11y + 12 = 0$

Q57. I. $3x^2 - 13x + 12 = 0$

II. $2y^2 - 15y + 28 = 0$

Q58. I. $x^2 = 16$


II. $2y^2 - 17y + 36 = 0$

Q59. I. $6x^2 + 19x + 15 = 0$

II. $3y^2 + 11y + 10 = 0$

Q60. I. $2x^2 - 11x + 15 = 0$

II. $2y^2 - 11y + 14 = 0$



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BILINGUAL

Directions (61-65): Study the following information and answer the questions asked related to the Passage.

In a school total 450 students are present. Ratio of girls to boys in the school is 8:7. 50% of girls and 40% of boys play basketball. 30% of boys and 30% of girls play cricket. 20% of girls and 30% of boys play football. 21 boys and 27 girls play both cricket and basketball. 18 boys and 21 girls play both cricket and football. 15 boys and 24 girls play both basketball and football. 6 boys and 9 girls play all three games. NOTE: Only three games are played in the school and some students dose not play any game.

Q61. What is the percentage of the students that does not play any games?

- (a) $14\frac{2}{3}\%$
- (b) $26\frac{8}{9}\%$
- (c) $24\frac{2}{3}\%$
- (d) $26\frac{2}{3}\%$
- (e) $24\frac{2}{5}\%$

Q62. What is the ratio of boys to girls who play only basketball?

- (a) 13:9
- (b) 13:11
- (c) 9:13
- (d) 9:8
- (e) 12:11

Q63. Girls who play only cricket are what percent of the girls who play football?

- (a) 72%
- (b) 62.25%
- (c) 66.50%
- (d) 68.75%
- (e) none of these

Q64. Number of boys who does not play any games are how much less than that of girls?

- (a) 15
- (b) 14
- (c) 29
- (d) 20
- (e) 12

Q65. What is the ratio of the girls who play basketball to boys who play cricket?

- (a) 21:40
- (b) 20:21
- (c) 40:19
- (d) 40:23
- (e) 40: 21

Q66. A rectangular garden is 100m x 80 m. There is a path along the garden and just outside it. Width of the path is 10m. The area of the path is

- (a) 1900 sq m
- (b) 2400 sq m
- (c) 3660 sq m
- (d) 4000 sq m
- (e) 4500 sq m

Q67. What will be the ratio of petrol and kerosene in the final solution formed by mixing petrol and kerosene that are present in three same capacity of vessels in the ratio 4 : 1, 5 : 2 and 6 : 1 respectively ?

- (a) 166 : 22
- (b) 83 : 22
- (c) 83 : 44
- (d) 16 : 27
- (e) 22 : 27

Q68. The height of a circular cylinder is increased to six times and the base area is decreased to one-ninth of its value. The factor by which the lateral surface of the cylinder increase is

- (a) $\frac{2}{3}$
- (b) $\frac{3}{2}$
- (c) 2
- (d) $\frac{1}{2}$
- (e) None of these

Q69. A right cylindrical vessel is full of water. How many right cones having the same diameter and height as that of the right cylinder will be needed to store that water? (take $\pi = \frac{22}{7}$)

- (a) 4
- (b) 2
- (c) 3
- (d) 5
- (e) 7

Q70. In a vessel there is a certain quantity of mixture of milk and water in the ratio 5 : 1 respectively. 24 litres of mixture is taken out and same quantity of milk is added to the vessel. The ratio of milk and water now becomes 13 : 2 respectively. Again 15 litres of mixture is taken out. What is the quantity of milk in the resulting mixture? (in litres)

- (a) 85 litres
- (b) 80 litres
- (c) 81 litres
- (d) 91 litres
- (e) None of these

Q71. Quantity I → Distance travelled by the bus to reach point B from point A if a car travels the same distance in 5 hrs and the speed of the bus is 120 km/hr which is 120% of the speed of the car.

Quantity II → Distance travelled by a boat to reach point D from point C if the speed of the boat in still water is 15 km/hr and speed of current is 3 km/hr. It goes from point C to D downstream and return back from point D to C upstream in 25 hrs.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I ≥ Quantity II
- (d) Quantity I = Quantity II
- (e) No relation

Q72. Quantity I → Value of a number which is 25% more of a number which is 75 less than 225.

Quantity II → Value of a number which is 87% less than a number which is 25% more than 1200.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I ≥ Quantity II
- (d) Quantity I = Quantity II
- (e) No relation

Directions (73-75): Compare the value of 2 quantities given in the question and give answer

- (a) if quantity I > quantity II
- (b) if quantity I < quantity II
- (c) if quantity I ≥ quantity II
- (d) if quantity I ≤ quantity II
- (e) if quantity I = quantity II or no relation can be established

Q73. Quantity I → cost price of an article having marked price = Rs. 400, which when sold at 20% discount still make a gain of $\frac{20}{3}\%$

Quantity II → cost price of an article which is sold at 14% profit and if cost price and selling price both are Rs. 117 less, the profit would be 9% more.

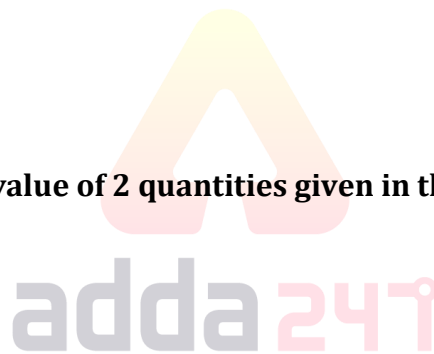
Q74. Quantity I → average income of the whole group of 75 people, if average income of the men in the group is Rs. 4200 and that of women is Rs. 4000. (total men: total women = 8 : 7)

Quantity II → The average income of 20 people, which decreases by Rs. 150 if a person with income of Rs. 1000 joins them.

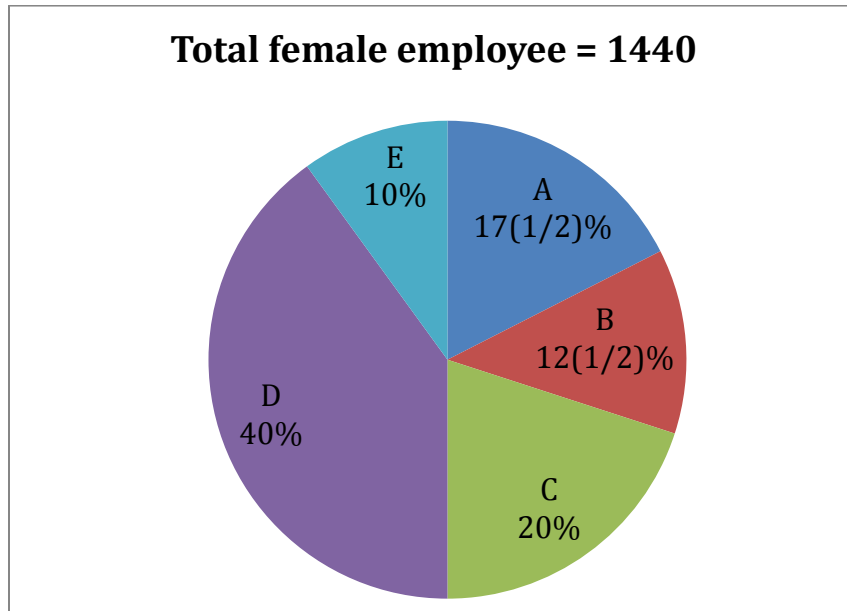
Q75. Quantity I → The distance of school from Aman's house if he reaches school 5 minutes late which walking at 4 km/hr but 10 minutes earlier than scheduled time walking at 5 km/hr.

Quantity II → 5 km

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Directions (76-80): Given below pie chart shows percentage distribution number of female employee in five different offices, while table shows ratio between male to female in these five different offices. Read the data carefully and answer the questions.



| Offices | Male employee: Female employee |
|---------|--------------------------------|
| A | 5 : 4 |
| B | 3 : 2 |
| C | 17 : 12 |
| D | 10 : 9 |
| E | 7 : 6 |

Q76. If 20% & 25% of male employee in A & D are post graduate, then find the number of male employee who are not post graduate in the both companies?

- (a) 732
- (b) 745
- (c) 740
- (d) 714
- (e) 734

Q77. Find the sum of number of male employee in C, D & A?

- (a) 1368
- (b) 1389
- (c) 1395
- (d) 1363
- (e) 1398

Q78. If 25% & 40% male employee of E & B are working in administration department & ratio of male to female work in administration department in two companies is 2 : 1, then find number of female employee who did not work in administration department in these companies?

- (a) 240
- (b) 249
- (c) 245
- (d) 256
- (e) 275

Q79. Total female employee in the C & D together is what percent more than total male employee in B & E together?

- (a) $99\frac{19}{73}\%$
- (b) $101\frac{15}{73}\%$
- (c) $105\frac{15}{73}\%$
- (d) $107\frac{15}{73}\%$
- (e) $97\frac{19}{73}\%$

Q80. Find the average number of employee in C & E?

- (a) 502
- (b) 505
- (c) 510
- (d) 504
- (e) 508

Q81. A fraction is increased by 20% and after that numerator increases by 240% and denominator increased to 50% so that resultant becomes $1\frac{1}{5}$. What is the Original fraction.

- (a) $\frac{5}{34}$
- (b) $\frac{35}{34}$
- (c) $\frac{25}{34}$
- (d) $\frac{15}{34}$
- (e) None of these

Q82. Find the speed of stream if a boat covers 36 km in downstream in 5 hours which is 3 hours less in covering the same distance in upstream.

- (a) 1.35 km/hr
- (b) 1.24 km/hr
- (c) 1.15 km/hr
- (d) 2.2 km/hr
- (e) None of these

Q83. Ten's digit of a two-digit number is 3 more than the square of its unit digit. If reverse of that number is 45 less than that of original, then find the original number.

- (a) 41
- (b) 27
- (c) 14
- (d) 52
- (e) 72

Q84. What is the probability that a number is divisible by 3?

- (a) $\frac{1}{3}$
- (b) $\frac{3x+1}{9x+1}$
- (c) $\frac{3}{10}$
- (d) $\frac{1}{2}$
- (e) None of these

Q85. Mohan was married 5 years ago. At present his age is $\frac{6}{5}$ times of his age at the time of marriage. His wife is 3 year younger to him. Find his wife's present age.

- (a) 22
- (b) 27
- (c) 21
- (d) 24
- (e) None of these


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Direction (86-90): What will come in the place of question (?) marks.

Q86. $(2.5)^2 + 55\%$ of $25 = ?^2 - 5$

- (a) 5
- (b) 2
- (c) 3
- (d) 1
- (e) 7

Q87. $121.75 + ? = 2^2 (6^3 - 91)$

- (a) 376.25
- (b) 378.25
- (c) 384.25
- (d) 386.25
- (e) 390.86

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Q88. $112\% \text{ of } 175 + ?^3 \times 7.5 = 16^2$

- (a) 1
- (b) 7
- (c) 4
- (d) 2
- (e) 3

Q89. $3\frac{1}{4} + ? = 7\frac{1}{8} + 2\frac{1}{12}$

- (a) $4\frac{1}{24}$
- (b) $5\frac{23}{24}$
- (c) $8\frac{1}{24}$
- (d) $10\frac{1}{24}$
- (e) $2\frac{1}{24}$

Q90. $12.5 \times ? + 12^3 = 40\% \text{ of } 4445$

- (a) 2
- (b) 5
- (c) 1
- (d) 6
- (e) 4



Directions (91-95): Refer to the table given below and answer the given questions.

Data related to the number of students in 5 different collages in the year of 2016.

Note: In each college, there are only three branches viz Art, Commerce and Science.

| Collage | Total number of students | Out of total number of students | | |
|---------------|--------------------------|---------------------------------|---------------------------------|----------------------------------|
| | | Percentage of Arts graduates | Percentage of Science graduates | Percentage of commerce graduates |
| B.N.D. | – | 30% | 30% | – |
| P.P.N. | – | – | 40% | – |
| D.A.V. | – | 35% | 50% | – |
| CHRIST CHURCH | 1000 | 32% | – | – |
| D.V.S | 600 | – | 42% | 30% |

NOTE: Some of the value are missing, you have to calculate these value according to the question.

Q91. What is the difference between the number of commerce graduate students and Arts graduate students in collage D.V.S.?

- (a) 10
- (b) 16
- (c) 12
- (d) 22
- (e) 27

Q92. The average number of Arts and commerce graduates in collage P.P.N.is 300 then find the number of Arts graduates in college P.P.N.?

- (a) 1020
- (b) 1140
- (c) 1040
- (d) Cannot be determined
- (e) None of these

Q93. If the respective ratio between the number of science graduate and commerce graduate students in college Christ Church was 2 : 3. What was the number of commerce graduate students in Christ Church?

- (a) 408
- (b) 280
- (c) 380
- (d) 308
- (e) 480

Q94. Total number of students in college Christ Church increased by 20% from 2016 to 2017. If 20% of the total number of students in college Christ Church in 2017 was science and commerce graduate, then what was the total number of science and commerce graduate students in college Christ Church in 2017?

- (a) 240
- (b) 169
- (c) 244
- (d) 104
- (e) 275

Q95. What is the ratio of Science and commerce graduates together from college Christ Church to the arts graduates from college D.V.S.?

- (a) 3 : 7
- (b) 7 : 17
- (c) 2 : 3
- (d) 17:7
- (e) None of these

Directions (96-100): Find out the wrong number in the following number series.

Q96. 14, 29, 41, 63, 65, 131, 133

- (a) 63
- (b) 131
- (c) 29
- (d) 41
- (e) 133

Q97. 2478, 819, 257, 84, 24, 5

- (a) 257
- (b) 24
- (c) 5
- (d) 819
- (e) 1

Q98. 4, 6, 12, 30, 90, 315, 1240

- (a) 315
- (b) 90
- (c) 6
- (d) 12
- (e) 1240

Q99. 289, 266, 285, 270, 281, 275, 277

- (a) 266
- (b) 275
- (c) 277
- (d) 281
- (e) 285

Q100. 7, 13, 49, 295, 2305, 23041

- (a) 7
- (b) 13
- (c) 49
- (d) 295
- (e) 2305

Directions (101-105): What should come in place of question mark (?) in the following given questions (just calculate the approximate value) ?

Q101. $(17.02)^2 \times (1.99)^3 + (8.95)^3 \times (4.95)^2 = ?$

- (a) 20573
- (b) 20537
- (c) 25037
- (d) 21537
- (e) 23537



Q102. 75.06% of $359.65 \times \frac{4}{7}$ of $139.89 \div 7.99 = ?$

- (a) 2400
- (b) 2800
- (c) 2600
- (d) 2700
- (e) 3000

Q103. $767.87 \div 23.96 \times 15.02 - 29.98 = ? \times 9.08$

- (a) 50
- (b) 55
- (c) 45
- (d) 48
- (e) 51

Q104. $55.003 \times 54.998 + 5.001 = ?$

- (a) 3500
- (b) 3630
- (c) 2540
- (d) 3030
- (e) 2750

Q105. $22.9782 + 9.002 - ? = 23.001$

- (a) 9
- (b) 8
- (c) 6
- (d) 11
- (e) 12



Directions (106-110): In each of the following questions two equations are given. You have to solve the equations and Give answer –

- (a) if $x < y$
- (b) if $x \leq y$
- (c) relationship between x and y cannot be determined
- (d) if $x \geq y$
- (e) if $x > y$

Q106. I. $8x^2 + 18x + 9 = 0$

II. $4y^2 + 19y + 21 = 0$

Q107. I. $3x^2 + 16x + 21 = 0$

II. $6y^2 + 17y + 12 = 0$

Q108. I. $16x^2 + 20x + 6 = 0$

II. $10y^2 + 38y + 24 = 0$

Q109. I. $8x^2 + 6x = 5$

II. $12y^2 - 22y + 8 = 0$

Q110. I. $17x^2 + 48x = 9$

II. $13y^2 = 32y - 12$

Directions (111-113): Each question below is followed by two statements A and B. You have to determine whether the data given in the statement is sufficient for answering the question. You should use the data and your knowledge of Mathematics to choose the best possible answer.

Give answer

- (a) if the statement A alone is sufficient to answer the question, but the statement B alone is not sufficient.
- (b) if the statement B alone is sufficient to answer the question, but the statement A alone is not sufficient.
- (c) if both statements A and B together are needed to answer the question.
- (d) if either the statements A alone or statement B alone is sufficient to answer the question
- (e) if you cannot get the answer from the statements A and B together, but need even more data.

Q111. Triangle ABC has angle BAC equal to 90° . What is the measure of the angle ABC?

- A. The angle ACB is 35° .
- B. The angle CBA is 55° .

Q112. X, Y and Z are three consecutive even numbers (not necessarily in this order). What is the sum of these numbers?

- A. The difference between X and Z is 4.
- B. One-third of Y is 14.

Q113. What is the salary of P, in a group of P, Q, R, S, T and U, if average salary of group is Rs. 35,000?

- A. Total of the salary of Q and S together is Rs. 54000.
- B. Total of the salary of T and U together is Rs. 58000.

Q114. Quantity 1: Height of the cylindrical tank if the volume of cylindrical tank is 12320 cm^3 . Its radius and height are in the ratio of 7 : 10 respectively.

Quantity 2: Level of kerosene in the cylindrical jar. The conical vessel of base radius 2 cm and height 3 cm is filled with kerosene. This liquid leak through a hole in the bottom and are being collected in a cylindrical jar of radius 2 cm.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I \geq Quantity II
- (d) Quantity I \leq Quantity II
- (e) Quantity I = Quantity II or No relation

Q115. A man who swims 48m/minute in still water, swims 200m against the current and 200m with the current. The difference of time in travelling these 200m in upstream and downstream is 10 minutes.

Quantity 1: speed of current.

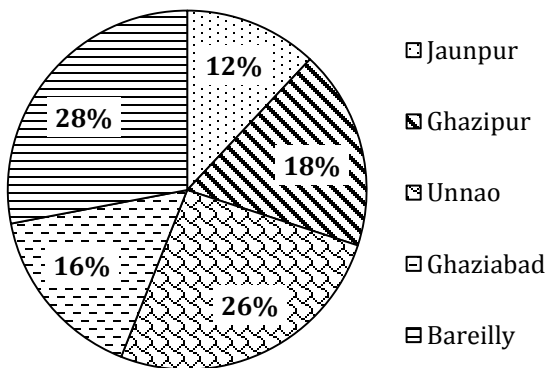
Quantity 2: Speed of a man who completes 3 rounds of a circular path of radius 49 m in 14 minutes.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I ≥ Quantity II
- (d) Quantity I ≤ Quantity II
- (e) Quantity I = Quantity II or No relation

Direction (116-120): Given below is the data related to Candidates appeared and qualified in UPTET 2018 exam from 6 different cities of UP.

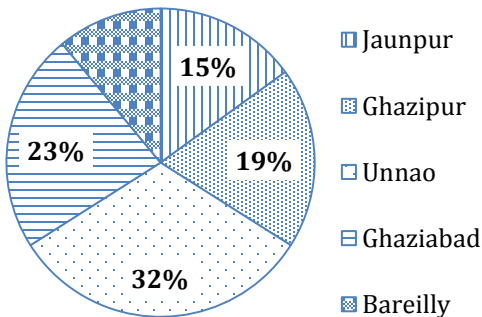
Table also shows the ratio of boys to girls appeared and qualified.

Total candidates appeared = 8550



| City | Boys : Girls |
|-----------|--------------|
| Jaunpur | 4 : 5 |
| Ghazipur | 7 : 2 |
| Unnao | 9 : 4 |
| Ghaziabad | 3 : 5 |
| Bareilly | 19 : 23 |

11% Total candidates qualified = 5700



| City | Boys: Girls |
|-----------|-------------|
| Jaunpur | 2: 3 |
| Ghazipur | 13: 6 |
| Unnao | 21: 11 |
| Ghaziabad | 9: 14 |
| Bareilly | 3: 8 |

Q116. Girls appeared from city Ghazipur is what percent of girls qualified from city Unnao?(Round off to 2 decimal places)

- (a) 54.54%
- (b) 52.56%
- (c) 51.58%
- (d) 56.58%
- (e) 48.58%

Q117. Find the ratio of boys appeared from city Ghazipur and city Ghaziabad together to the girls qualified from the same cities.

- (a) 5 : 4
- (b) 4 : 3
- (c) 3 : 2
- (d) 2 : 1
- (e) 1 : 2

Q118. Boys appeared from city Ghaziabad is what percent of average no. of Students appeared from all cities?

- (a) 50%
- (b) 30%
- (c) 35%
- (d) 40%
- (e) 45%

Q119. If $\frac{100}{9}$ % of girls qualified from city Jaunpur were found not eligible to get appointed as a primary teacher in the schools due to some reasons, then find the ratio between girls appointed as primary teacher in various schools through UPTET from Jaunpur to the total number of students qualified from Jaunpur.

- (a) 8 : 23
- (b) 7 : 23
- (c) 15 : 8
- (d) 8 : 15
- (e) 23 : 8

Q120. Find the total number of girls qualified from all cities together.

- (a) 2652
- (b) 2742
- (c) 2826
- (d) 2761
- (e) 2736

Direction (121-124): Given below data regarding number of Samsung mobile sold by store on seven days of week (Sunday to Saturday). Read the data carefully and answer the questions.

Total mobile sold on Wednesday is $33\frac{1}{3}$ % more than that of total mobile sold on Tuesday, while total mobile sold by store on Saturday is 10% less than total mobile sold by store on Wednesday. Average number of mobile sold by store on Monday, Tuesday, Wednesday & Saturday is 205 and total mobile sold by store on Monday is 4 more than that of total mobile sold by store on Tuesday. Total number of mobile sold by store on Friday is 24 more than that of total number of mobile sold by store on Thursday, while total number of mobile sold on Sunday is 32 less than total mobile sold by store on Thursday. Total mobile sold by store in the week is 1400.

Q121. Total mobile sold by store on Wednesday is what percent less than total mobile sold by store on Monday & Saturday together?

- (a) 35%
- (b) 32%
- (c) 45%
- (d) 40%
- (e) 48%

Q122. Find ratio between total mobile sold by store on Monday & Thursday together to total mobile sold by store on Friday?

- (a) 19 : 11
- (b) 19 : 13
- (c) 19 : 15
- (d) 19 : 17
- (e) 19 : 9

Q123. Find average number of mobile sold by store on Tuesday, Wednesday & Saturday?

- (a) 202
- (b) 208
- (c) 212
- (d) 224
- (e) 236

Q124. Total mobile sold by store on Sunday & Saturday together is what percent more than total mobile sold by store on Monday & Thursday together?

- (a) 1%
- (b) 2%
- (c) 3%
- (d) 4%
- (e) 0%

Q125. A dishonest dealer marks up the price of his goods by 20% and gives a discount of 10% to the customer. He also uses a 900 gram weight instead of a 1 kilogram weight. Find his percentage profit due to these due to these maneuvers.

- (a) 8%
- (b) 12%
- (c) 20%
- (d) 16%
- (e) None of these

Q126. The ratio of Present age of Radha and Present age of Ruchi is 9 : 4. If the difference between the present age of Radha and the age of Ruchi 5 years hence is 5 then what is the sum of the present ages of Radha and Ruchi?

- (a) 18 years
- (b) 16 years
- (c) 26 years
- (d) 28 years
- (e) 22 years

Q127. Rs 600 are divided among A, B, C such that Rs 40 more than $\frac{2}{5}$ of A's share, Rs 20 more than $\frac{2}{7}$ of B's share and Rs 10 more than $\frac{9}{17}$ of C's share all are equal what is B's share?

- (a) Rs 280
- (b) Rs 150
- (c) Rs 240
- (d) Rs 320
- (e) Rs 220

Q128. There is a certain amount from which A takes 30% then B takes 60% of remaining amount, then C takes 80% of the remaining amount. Now if the amount left is 2,536.8 then what is the actual sum?

- (a) Rs. 45,300
- (b) Rs. 45,500
- (c) Rs. 42,600
- (d) Rs. 48,400
- (e) Rs. 45,360

Q129. A discount of 20% is given on the marked price of an article. The shopkeeper charges sales tax of 8% on the discounted price. If the selling price be Rs 1836, what is the marked price of the article?

- (a) Rs 2185
- (b) Rs 2250
- (c) Rs 3020
- (d) Rs 2125
- (e) Rs 2035

Q130. In a class of 75 students and 10 teachers, each student got sweets that are 20% of the total number of students and each teacher got sweets that are 30% of the total number of students. How many sweets were there?

- (a) 1350
- (b) 1360
- (c) 1250
- (d) 1240
- (e) 1430



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Direction (131-135): What should come in place of the question mark (?) in the following questions?

Q131. $3.2\% \text{ of } 500 \times 2.4\% \text{ of } ? = 288$

- (a) 650
- (b) 700
- (c) 600
- (d) 750
- (e) 845

Q132. $(-251 \times 21 \times -12) \div ? = 158.13$

- (a) 250
- (b) 400
- (c) 300
- (d) 15
- (e) 340

Q133. $[(130)^2 \div 25 \times 15] \div 30 = ?$

- (a) 352
- (b) 314
- (c) 326
- (d) 338
- (e) 375



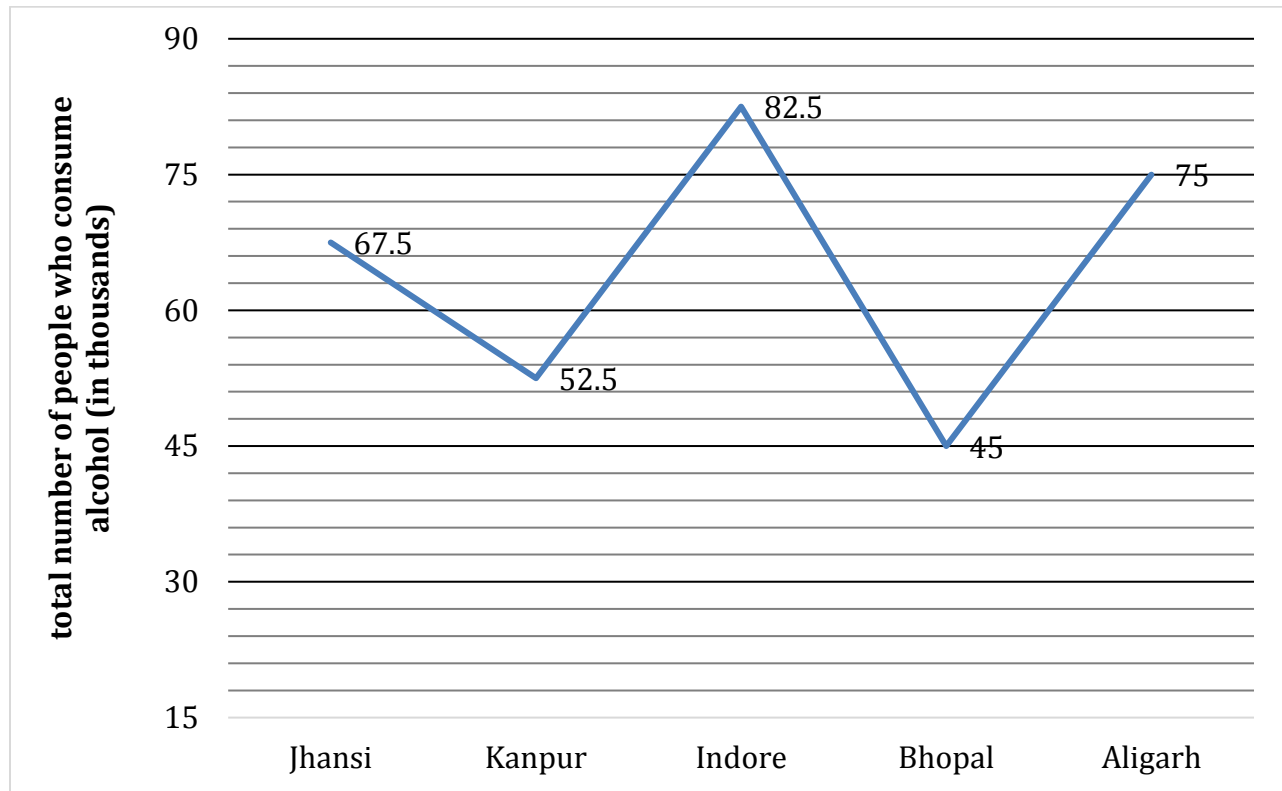
Q134. $\sqrt{\sqrt{44944} + \sqrt{52441}} = ?$

- (a) 312
- (b) 441
- (c) 485
- (d) 17
- (e) 21

Q135. $(6.5\% \text{ of } 375) - (0.85\% \text{ of } 230) = ?$

- (a) 23.42
- (b) 24.24
- (c) 21.64
- (d) 22.40
- (e) 25.76

Direction (136-140): The following line graph and table show the total number of persons who consume alcohol and ratio of male to female in them in five different cities of India. Study the graph carefully to answer the following questions.



| City | Ratio of male to female (who consume alcohol) |
|---------|---|
| | Male : Female |
| Jhansi | 5 : 4 |
| Kanpur | 11 : 4 |
| Indore | 3 : 2 |
| Bhopal | 5 : 1 |
| Aligarh | 17 : 8 |

Q136. If 20% population of Jhansi consume alcohol, then total no. of male who consume alcohol in Jhansi is approximately what percent of total population of Jhansi who do not consume alcohol?

- (a) 18%
- (b) 14%
- (c) 12%
- (d) 11%
- (e) 10%

Q137. If one person dies out of every four person who consume alcohol in Indore city, then total no. of persons who die due to drinking alcohol in Indore is what percent of total female population in Indore who consume alcohol?

- (a) 52.6%
- (b) 65.2%
- (c) 62.5%
- (d) 60%
- (e) 60.5%

Q138. If three fifth of total population of Kanpur consume alcohol, then what is the ratio of males who consume alcohol to the total population who do not consume alcohol in Kanpur?

- (a) 12 : 13
- (b) 13 : 12
- (c) 10 : 11
- (d) 11 : 10
- (e) 9 : 11

Q139. What is the difference between average no. of males and average no. of females who are alcohol consumer in all the five cities?

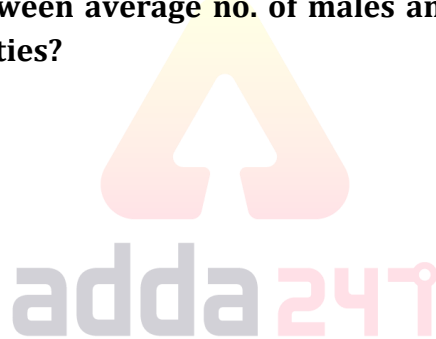
- (a) 20,200
- (b) 21,100
- (c) 20,110
- (d) 22,100
- (e) 24,000

Q140. If 10% , 20% and 25% persons leave consuming of alcohol due to fear of infection in liver in cities Jhansi, Bhopal and Aligarh respectively then what is the ratio of males who are still consuming alcohol in these cities respectively?

- (a) 51 : 40 : 45
- (b) 40 : 45 : 51
- (c) 45 : 40 : 51
- (d) 45 : 51 : 40
- (e) can't be determine.

Q141. In how many ways can 5 prizes be distributed to 8 students if each student can get any number of prizes?

- (a) 40
- (b) 5^8
- (c) 8^5
- (d) 120
- (e) 140



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Q142. There are four hotels in a town. If three men check into the hotels in a day then what is the probability that all of them do not check into the same hotel?

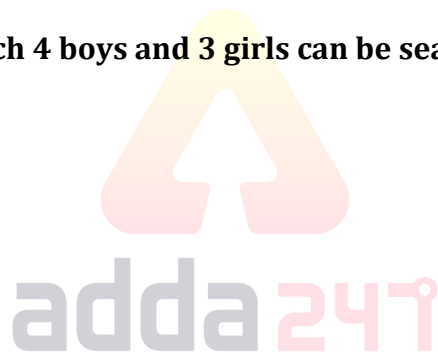
- (a) $\frac{15}{16}$
- (b) $\frac{63}{64}$
- (c) $\frac{3}{64}$
- (d) $\frac{1}{16}$
- (e) $\frac{1}{4}$

Q143. How many 4 digits number can be formed using 2, 3, 5, 7, 6 and 9 if the number should be divisible by '4' and repetition is not allowed?

- (a) 120
- (b) 96
- (c) 160
- (d) 64
- (e) 296

Q144. Find the probability in which 4 boys and 3 girls can be seated in a row such that no two girls or boys sit together?

- (a) $\frac{24}{35}$
- (b) $\frac{2}{35}$
- (c) $\frac{1}{35}$
- (d) $\frac{4}{35}$
- (e) $\frac{12}{35}$



Q145. How many 6 letter words can be formed using the word "MATTER" in which no. of T's do not come together?

- (a) 600
- (b) 300
- (c) 340
- (d) 260
- (e) 240

Directions (146-150): What will come in place of (?) in the following number series ?

Q146. 148, 152, 161, 177, ?, 238

- (a) 208
- (b) 214
- (c) 202
- (d) 198
- (e) 192

Q147. 339, 355, 323, 371, 307, ?

- (a) 407
- (b) 354
- (c) 328
- (d) 387
- (e) 388

Q148. 5, 14, 40, 117, 347, ?

- (a) 920
- (b) 745
- (c) 1124
- (d) 1036
- (e) 694

Q149. 12, 24, 96, 576, ?, 46080

- (a) 3542
- (b) 3890
- (c) 4248
- (d) 4608
- (e) 3246

Q150. 156, 468, 780, ?, 1404, 1716

- (a) 1096
- (b) 1092
- (c) 1290
- (d) 870
- (e) 980



Q151. A milkman has 20 L of pure milk. He sells 5 L of it at profit of 20% and he mixes 5 L water in remaining quantity of milk. If he sells whole quantity of mixture at cost price then find his percentage profit?

- (a) 25%
- (b) 20%
- (c) 24%
- (d) 28%
- (e) 30%

Q152. The sum of the radius and height of a cylinder is 18m. The total surface area of the cylinder is 792 m^2 , what is the volume of the cylinder ? (in m^3)

- (a) 1848
- (b) 1694
- (c) 1716
- (d) 1724
- (e) 1440

Q153. In a 90 litre mixture of milk and water, percentage of water is only 30%. The milkman gave 18 litres of this mixture to a customer and then added 18 litres of water to the remaining mixture. What is the percentage of milk in the final mixture ?

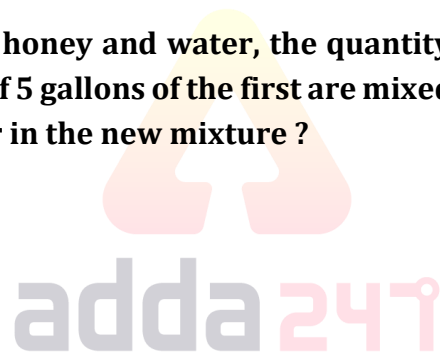
- (a) 64%
- (b) 48%
- (c) 52%
- (d) 68%
- (e) 56%

Q154. If the area of a circle is 616 cm^2 , what would be the total surface area of a hemisphere having the same radius as the circle ?

- (a) 1848 cm^2
- (b) 1648 cm^2
- (c) 2218 cm^2
- (d) 1808 cm^2
- (e) 1765 cm^2

Q155. There are two mixtures of honey and water, the quantity of honey in them being 40% and 75% of the mixture respectively. If 5 gallons of the first are mixed with 8 gallons of the second, what will be the ratio of honey to water in the new mixture ?

- (a) 11 : 2
- (b) 8 : 5
- (c) 9 : 11
- (d) 2 : 11
- (e) 3 : 22



Direction (156-160): - There are total five departments in a company. There are total 90 employees in Finance department which is 25% of total employees in the company. $\frac{2}{9}$ of the total employees of the company are working in HR department. Employees working in Sales department is 25% more than that in HR department. Ratio between employees working in Security and Housing department is 4 : 5.

Q156. Find number of employees working in HR department is what percent more than number of employees working in Security department?

- (a) 250%
- (b) 200%
- (c) 150%
- (d) 100%
- (e) 50%

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Q157. Find the average number of employees working in Sales, Finance and Housing department?

- (a) 60
- (b) 70
- (c) 80
- (d) 90
- (e) 100

Q158. Number of employees in Housing department is how much more than number of employees in Security department?

- (a) 10
- (b) 20
- (c) 30
- (d) 40
- (e) 50

Q159. In Security department, 40% are female employees then find total male employees working in Security department?

- (a) 16
- (b) 40
- (c) 32
- (d) 8
- (e) 24

Q160. Ratio between total number of male and female employees in HR department is 2 : 3. Find total number of female employees working in HR department?

- (a) 32
- (b) 48
- (c) 64
- (d) 40
- (e) 56

Directions (161-165): In each of the following questions two equations are given. Solve the equations and give answer—

- (a) If $x < y$
- (b) If $x \leq y$
- (c) $x = y$ or relationship between x and y cannot be established.
- (d) If $x \geq y$
- (e) If $x > y$

Q161. I. $9x^2 - 27x + 20 = 0$

II. $6y^2 - 5y + 1 = 0$

Q162. I. $3x^2 - 22x + 40 = 0$

II. $2y^2 - 19y + 44 = 0$

Q163. I. $2x^2 - 11x + 14 = 0$

II. $2y^2 - 7y + 6 = 0$

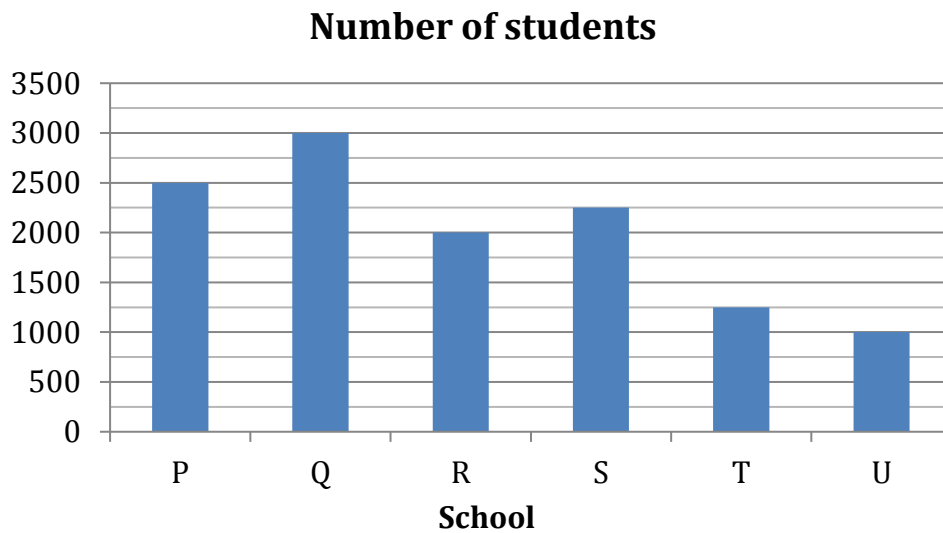
Q164. I. $x^2 = 49$

II. $y^2 - 4y - 21 = 0$

Q165. I. $3x^2 - 13x - 10 = 0$

II. $3y^2 + 10y - 8 = 0$

Directions (166-170): Bar graph shows total number of Students in six different schools and the table shows percentage of girls in them. Study the graphs carefully to answer the questions that follow:



| Schools | Percentage pf girls |
|---------|---------------------|
| P | 40% |
| Q | 45% |
| R | 27.5% |
| S | 30% |
| T | 40% |
| U | 17.5% |

Q166. Find the percentage of boys in schools R and U together ? (rounded off to two digits after decimal)

- (a) 78.55
- (b) 72.45
- (c) 76.28
- (d) 75.83
- (e) None of these

Q167. What is the total number of boys in School T ?

- (a) 500
- (b) 600
- (c) 750
- (d) 850
- (e) None of these

Q168. The total number of students in school R is approximately what per cent of the total number of students in school S ?

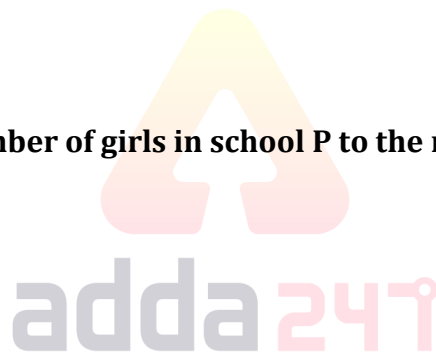
- (a) 89
- (b) 75
- (c) 78
- (d) 82
- (e) 94

Q169. What is the average number of boys in schools P and Q together ?

- (a) 1425
- (b) 1575
- (c) 1450
- (d) 1625
- (e) 1265

Q170. What is the ratio of the number of girls in school P to the number of girls in school Q ?

- (a) 27 : 20
- (b) 17 : 21
- (c) 20 : 27
- (d) 21 : 17
- (e) None of these



Q171. There are 6 filling pipes each capable of filling a tank alone in 16 minutes and 4 emptying pipes each capable of emptying the same tank alone in 20 minutes. All pipes are opened together and as a result tank fills 28 liters of water per minute. Find the capacity of the tank.

- (a) 145 lr
- (b) 160 lr
- (c) 240 lr
- (d) 180 lr
- (e) None of these

Q172. Train A travelling at the speed of 90 kmph overtook train B, which traveling in the same direction in 5 seconds. If train B traveling at twice its speed, then train A would have taken 15 seconds to overtake it. Find the length of train B, given that it is half the length of train A.

- (a) 25 m
- (b) 50 m
- (c) 75 m
- (d) 150 m
- (e) None of these

Q173. In a race of 300 m, P beats M by 30 m and Q by 50 m. If M and Q are running a race of 200 m with the same speed as before, then by how many approximate meters will M beat Q?

- (a) 15 m
- (b) 10 m
- (c) 12 m
- (d) 25 m
- (e) 8 m

Q174. Akshay starts working on a job and continues for 15 days and completes 36% of the job. If for complete the remaining work, he employs Monika and together they work complete the remaining work in 20 days. What will be the efficiency ratio of Akshay and Monika ?

- (a) 7 : 5
- (b) 4 : 3
- (c) 5 : 3
- (d) 1 : 3
- (e) 3 : 1

Q175. A skilled, a half skilled and an unskilled laborer work on a task for 7, 8 and 10 days respectively and they together get total Rs. 369 for that task. If the ratio of their each day's work is $\frac{1}{3} : \frac{1}{4} : \frac{1}{6}$, then how much does the skilled laborer get (in rupees)?

- (a) 164.50
- (b) 102.50
- (c) 201.50
- (d) 143.50
- (e) 127.75

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Directions (176-180): What should come in place of question mark (?) in the following number series?

Q176. 32, 49, 83, 151, 287, 559, ?

- (a) 1118
- (b) 979
- (c) 1103
- (d) 1120
- (e) None of these

Q177. 462, 552, 650, 756, 870, 992, ?

- (a) 1040
- (b) 1122
- (c) 1132
- (d) 1050
- (e) None of these

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Q178. 15, 18, 16, 19, 17, 20, ?

- (a) 23
- (b) 22
- (c) 16
- (d) 18
- (e) None of these

Q179. 1050, 420, 168, 67.2, 26.88, 10.752, ?

- (a) 4.3008
- (b) 6.5038
- (c) 4.4015
- (d) 5.6001
- (e) None of these

Q180. 0, 6, 24, 60, 120, 210, ?

- (a) 343
- (b) 280
- (c) 335
- (d) 295
- (e) 336

Directions (181-185): Read the table graph carefully and answer the following questions.

The following table shows total no. of workers who worked for Swachh Bharat Abhiyan in many sectors in five different years and also the ratio of male workers to female workers. Study the table and answer the questions.

| Years | Total no. of workers | M : F |
|-------|----------------------|-------|
| 2014 | 54,000 | 5 : 4 |
| 2015 | 65,000 | 8 : 5 |
| 2016 | 68,500 | 3 : 2 |
| 2017 | 70,500 | 4 : 1 |
| 2018 | 72,000 | 7 : 5 |

Q181. The female workers worked in the year 2014 are approximately what percent of total no. of workers worked in the year 2015?

- (a) 40%
- (b) 48%
- (c) 50%
- (d) 55%
- (e) 37%

Q182. What is the average no. of male workers worked in the years 2015 and 2016 together?

- (a) 42,500
- (b) 40,550
- (c) 41,500
- (d) 43,500
- (e) None of these

Q183. What is the difference between male workers and female workers worked in the year 2017?

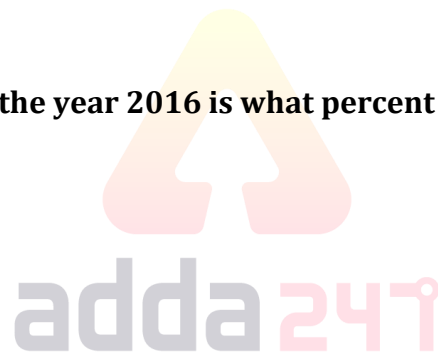
- (a) 40,000
- (b) 42,500
- (c) 42,300
- (d) 41,800
- (e) None of these

Q184. In which year maximum no. of female workers is worked?

- (a) 2014
- (b) 2015
- (c) 2016
- (d) 2018
- (e) 2017

Q185. The no. of male workers in the year 2016 is what percent more or less than the no. of female workers in the year 2018 ?

- (a) 35%
- (b) 37%
- (c) 30%
- (d) 33%
- (e) 27%



Q186. A invest Rs. 768 more than B in a business but B has invested his capital for 7 months while A has invested his capital for 4 months. If the share of A is Rs. 42 more than that of B out of total profit of Rs. 358. Find the amount invested by B.

- (a)Rs. 542
- (b)Rs 1400
- (c)Rs 642
- (d)Rs 632
- (e)None

Q187. After replacing an old member by a new member, it was found that the average age of five members of a club is the same as it was 3 years ago. The difference between the ages of the replaced and the new members is

- (a) 2 years
- (b) 4 years
- (c) 8 years
- (d) 15 years
- (e) None of these

Q188. One fill pipe A is 3 times faster than second fill pipe B and takes 32 minutes less than the fill pipe B. When will the cistern be full if both pipes are opened together?

- (a) 12 minutes
- (b) 24 minutes
- (c) 30 minutes
- (d) Data inadequate
- (e) None of these

Q189. Three pipes A, B and C are connected to a tank. A and B together can fill the tank in 10 hours, B and C together in 15 hours and C and A together in 12 hrs. In how much time all pipes fill the tank together ?

- (a) 8
- (b) 12
- (c) 11
- (d) 10
- (e) None of these

Q190. Tea worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1 : 1 : 2. If the mixture is worth Rs. 153 per kg, then the price of third variety per kg will be

- (a) Rs. 169.50
- (b) Rs. 170
- (c) Rs. 175.50
- (d) Rs. 180
- (e) None of these

Directions (191-195): In the following questions, two equations in x and y are given. Solve these equations and give answer

- (a) if $x > y$
- (b) if $x < y$
- (c) if $x \geq y$
- (d) if $x \leq y$
- (e) $x = y$ or relation cannot be established between x and y

Q191. I. $2x + 3y = 14$

II. $4x + 2y = 16$

Q192. I. $6x^2 + 77x + 121 = 0$

II. $y^2 + 9y - 22 = 0$

Q193. I. $6x^2 + 41x + 63 = 0$


II. $12y^2 + 55y + 63 = 0$

Q194. I. $4x^2 + 11x + 6 = 0$

II. $2y^2 + 11y + 15 = 0$

Q195. I. $10x^2 - 7x + 1 = 0$

II. $35y^2 - 12y + 1 = 0$



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