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All India MAHA Mock: RRB PO Prelims (27th July 2019)

Directions (1-5): In each of the question, relationships between some elements are shown in the statements. These statements are followed by conclusions numbered I and II. Read the statements and give the answer.

Q1.

Statements:

$M \geq T < V$; $U < V \leq X$; $Z \geq Y \geq X$

Conclusions:

I. $T < Z$

II. $U < Y$

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

Q2.

Statements:

$W \leq A \leq K = N$; $D \leq A \leq U = L$; $G > L$

Conclusions:

I. $W < G$

II. $D \geq N$

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

Q3.

Statements:

$N < T \leq O$; $F > N \geq E = I > R$; $R \geq Y$

Conclusions:

I. $Y < O$

II. $F > T$

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.



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Q4.

Statements:

$$I \geq N \geq O = X ; D \geq J \geq I = E$$

Conclusions:

I. $O < D$

II. $X = D$

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

Q5.

Statements:

$$P > N = L \geq M ; G = M \leq H \leq S$$

Conclusions:

I. $P > S$

II. $N \geq G$

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

Directions (6-8): Study the following information and answer the given questions.

Point K is 12m to the West of point G. Point M is 4m to the North of Point K. Point J is 10m to the South of Point L. Point F is 6m to the West of point J. Point G lies exactly between Point L and Point J.

Q6. In which direction is Point J with respect to Point M?

- (a) North
- (b) Northwest
- (c) South
- (d) Southeast
- (e) Cannot be determined

Q7. What is the shortest distance between Point K and Point L?

- (a) 10m
- (b) 12m
- (c) 13m
- (d) 17m
- (e) None of these

Q8. If Point N is 6m to the East of Point M, then how far is Point F from Point N?

- (a) 12m
- (b) 10m
- (c) 9m
- (d) 8m
- (e) None of these

Directions (9-11): Study the following information and answer the given questions.

In a family of eight members there are four male members. J is grandfather of L. M is the brother of L. J has only two children one of them is unmarried. P is sister-in-law of S. K is paternal grandmother of M. S is daughter of K. Q is the Son of G and brother of L.

Q9. How is G related to K?

- (a) Son
- (b) Daughter
- (c) Mother
- (d) Brother
- (e) Either (A) or (B)

Q10. How is L related to S?

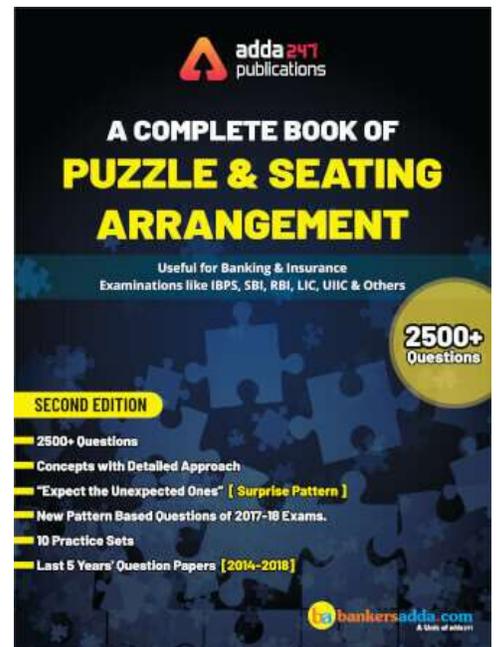
- (a) Aunt
- (b) Nephew
- (c) Niece
- (d) Sister
- (e) Cannot be determined

Q11. How is P related to M?

- (a) Sister
- (b) Aunt
- (c) Grandmother
- (d) Mother
- (e) None of these

Q12. If "SOUL" is coded as "5#7\$", "FREELS" is coded as "29@@\$5", then "OURSELF" will be coded as?

- (a) #759@\$2
- (b) #795@2\$
- (c) #9572\$@
- (d) #795@\$2
- (e) None of these



Q13. How many pairs of letters are there in the word " **PARTICLE**" which have as many letters between them in the word as in alphabetical series?

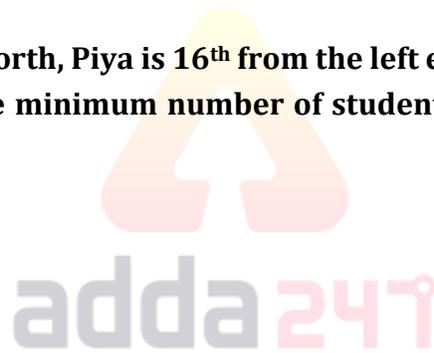
- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of these

Q14. If all the alphabets are rearranged within itself as they appear in the English dictionary in the word "**MISUNDERSTANDING**" then which of the following will be fourth to the left of the twelfth from the left end?

- (a) G
- (b) N
- (c) M
- (d) I
- (e) None of these

Q15. In a row of students facing North, Piya is 16th from the left end. Nine students sit between Piya and Riya., then what could be the minimum number of students possible to be in the row if Piya does not sit at any end?

- (a) 16
- (b) 17
- (c) 25
- (d) 26
- (e) Cannot be determined



Directions (16-20): Study the following information carefully and answer the question given below-

Seven people viz. A, B, C, D, E, F and G live in a building of seven different floors. The ground floor is numbered as 1, the floor just above it is numbered as 2 and so on till top floor which is numbered as 7 (but not necessarily in the same order). Each of them is travelling to a different city viz. Delhi, Mumbai, Patna, Chennai, Kolkata, Bengaluru and Lucknow (but not necessarily in the same order).

Only three people live above the floor on which A live. Only one person lives between A and the one travelling to Bengaluru. F lives immediately below the one travelling to Mumbai. The one travelling to Mumbai lives on an even numbered floor. Only three people live between the ones travelling to Bengaluru and Patna. E live immediately above C. E is not travelling to Patna. Only two people live between B and the one travelling to Kolkata. The one travelling to Kolkata lives below the floor on which B live. The one travelling to Delhi does not live immediately above or immediately below B. D does not live immediately above or immediately below A. G does not travel to Chennai.

Q16. Who among the following lives on floor number 3?

- (a) C
- (b) G
- (c) E
- (d) The one travelling to Chennai
- (e) The one travelling to Kolkata

Q17. D is travelling to which of the following city?

- (a) Mumbai
- (b) Bengaluru
- (c) Chennai
- (d) Kolkata
- (e) Patna

Q18. Who among the following lives immediately above E?

- (a) A
- (b) B
- (c) D
- (d) G
- (e) F

Q19. How many people live between the floors on which D and the one travelling to Mumbai lives?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) More than three

Q20. Which among the following statement is true with respect to G?

- (a) G lives on lowermost floor
- (b) G lives on floor number 7
- (c) G lives immediately above E
- (d) G is travelling to Bengaluru
- (e) None of these

Directions (21-25): Study the information and answer the following questions:

Ten persons are sitting in two parallel rows facing each other. A, B, C, D and E are sitting in row 1 facing north and P, Q, R, S and T are sitting in row 2 facing south (not necessarily in the same order). The persons who are facing each other likes same sports. The sports are Cricket, Football, Hockey, Tennis and Badminton.

B sits third to the right of E and one of them sits at an extreme end of the row. One person sit between S and P and neither of them sits at any end. The pair who likes Badminton sits to the immediate left of B. T sits at one of the end and does not like Football. C sits second to the right of E. S likes Cricket. D likes football and sits at one of the end. Q does not like Football. Either of the pair who sits at the extreme ends does not like Hockey. The pair who likes Tennis does not sit to the immediate right of P. Q does not face A.

Q21. Who among the following sits to the immediate right of the one who faces D?

- (a) S
- (b) P
- (c) R
- (d) T
- (e) None of these

Q22. What is the position of C with respect to one who likes Hockey?

- (a) Third to the left
- (b) Third to the right
- (c) Immediate left
- (d) Immediate right
- (e) None of these

Q23. Who faces R?

- (a) A
- (b) B
- (c) C
- (d) D
- (e) None of these

Q24. Who faces the immediate neighbor of E?

- (a) P
- (b) The one who likes Cricket
- (c) The one who likes Football
- (d) The one who likes Tennis
- (e) None of these

Q25. Four of the following five pair are alike in a certain way and hence form a group. Who among the following does not belong to that group?

- (a) E, S
- (b) B, R
- (c) C, P
- (d) A, Q
- (e) D, R



Directions (26-30): Study the following information carefully and answer the questions given below:

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: match 8 company 12 better 14 door 16 sequence 10

Step I : better match 8 company 14 door 16 sequence 10 12

Step II : company better match 8 door 16 sequence 10 12 14

Step III : door company better match 16 sequence 10 12 14 8

Step IV : match door company better 16 sequence 12 14 8 10

Step V : sequence match door company better 12 14 8 10 16

Step V is the last step of the above arrangement.

As per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.

Input: roast 14 cricket 16 plug 12 twilight 10 output 8

Q26. Which of the following element is fifth from the left end in Step II?

- (a) 12
- (b) plug
- (c) twilight
- (d) 10
- (e) None of these

Q27. Which of the following element is fourth from the right end in step IV?

- (a) 14
- (b) 10
- (c) output
- (d) cricket
- (e) twilight

Q28. Which of the following is Step III of the given input?

- (a) plug output roast cricket 16 twilight 10 14 12 8
- (b) plug output cricket roast 16 twilight 14 10 12 8
- (c) plug output cricket roast 16 twilight 10 14 12 8
- (d) plug output cricket roast twilight 16 10 14 12 8
- (e) None of these

Q29. Which element is fifth to the left of '12' in step V?

- (a) twilight
- (b) plug
- (c) output
- (d) roast
- (e) None of these

Q30. Which element is seventh to the right of 'cricket' in step I?

- (a) 8
- (b) output
- (c) 10
- (d) 14
- (e) twilight

Directions (31-35): Study the following information carefully and answer the questions given below:

In a certain code language

'study book room rent' is coded as 'dy bk rm rt'

'room rent is high' is coded as 'rm rt 9ig h'

'pay rent is more' is coded as 'yp rt si me'

'more study work hard' is coded as 'me dy wk hd'

Q31. What is the code for 'more room'?

- (a) rm si
- (b) me gh
- (c) me rm
- (d) bk rm
- (e) None of these

Q32. What is the code for 'work is hard'?

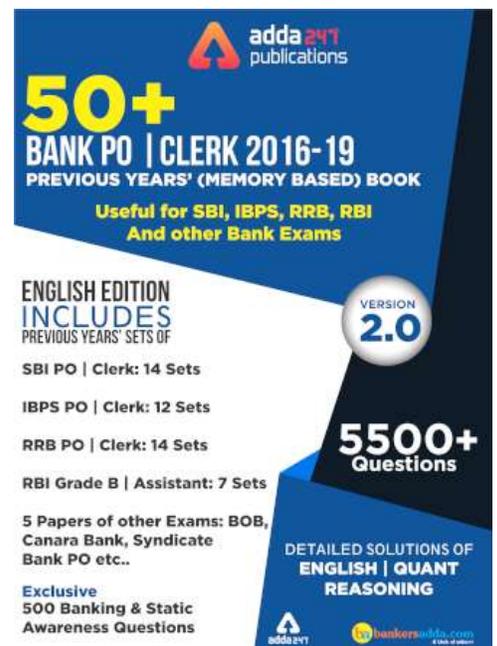
- (a) hd gh si
- (b) wk hd rt
- (c) wk si hd
- (d) si wk yp
- (e) Cannot be determined

Q33. 'dy' is denoted as?

- (a) book
- (b) room
- (c) rent
- (d) study
- (e) None of these

Q34. What is the code for 'book'?

- (a) dy
- (b) bk
- (c) rt
- (d) rm
- (e) None of these



Q35. 'wk' is the code for?

- (a) work
- (b) high
- (c) hard
- (d) Either (A) or (B)
- (e) Cannot be determined

Directions (36-40): Study the following information carefully and answer the given questions:

J, K, L, M, N, O and P are seven students studying in three different classes, viz. class IX, class X and class XI. At least two students studies in each class. Each one of them likes different subject viz. English, Hindi, Sanskrit, Mathematics, Computer, Physics and Biology (but not necessarily in the same order).

M likes Mathematics and does not study in class X. K likes Biology and studies in a class only with the one who likes Computer. N studies in Class XI and neither likes Computer nor studies with the one who likes English. P likes Hindi and studies with O. J likes English and does not study in class XI. The one who likes Sanskrit is studying with the one who likes Physics. O does not like Sanskrit

Q36. Who among the following likes Sanskrit?

- (a) L
- (b) N
- (c) O
- (d) J
- (e) None of these

Q37. Who among the following studies in class X?

- (a) K
- (b) L
- (c) The one who likes Sanskrit
- (d) Either (A) or (B)
- (e) Both (A) or (B)

Q38. Who among the following studies in class IX?

- (a) O
- (b) P
- (c) L
- (d) M
- (e) None of these

Q39. Which of the following combinations is true?

- (a) M – Class XI
- (b) N – Class X
- (c) L – Class IX
- (d) O – Class XI
- (e) None is true

Q40. The one who studies with N likes which subject?

- (a) Computer
- (b) Mathematics
- (c) Hindi
- (d) English
- (e) Biology

Directions (41-45): In each question two equations numbered (I) and (II) are given. Student should solve both the equations and mark appropriate answer.

Q41.

I. $21x^2 - 22x + 5 = 0$

II. $63y^2 - 54y + 11 = 0$

- (a) If $x=y$ or no relation can be established
- (b) If $x>y$
- (c) If $x<y$
- (d) If $x\geq y$
- (e) If $x\leq y$

Q42.

I. $9x^2 - 64 = 0$

II. $12y^2 - 65y + 88 = 0$

- (a) If $x=y$ or no relation can be established
- (b) If $x>y$
- (c) If $x<y$
- (d) If $x\geq y$
- (e) If $x\leq y$

Q43.

I. $6x^2 + 42x - 29 = -101$

II. $6y^2 + 22y + 160 = 25 - 35y$

- (a) If $x=y$ or no relation can be established
- (b) If $x>y$
- (c) If $x<y$
- (d) If $x\geq y$
- (e) If $x\leq y$



Q44.

I. $2(x + 5) - 7 = 3(x - 2)$

II. $3y^2 - 243 = 0$

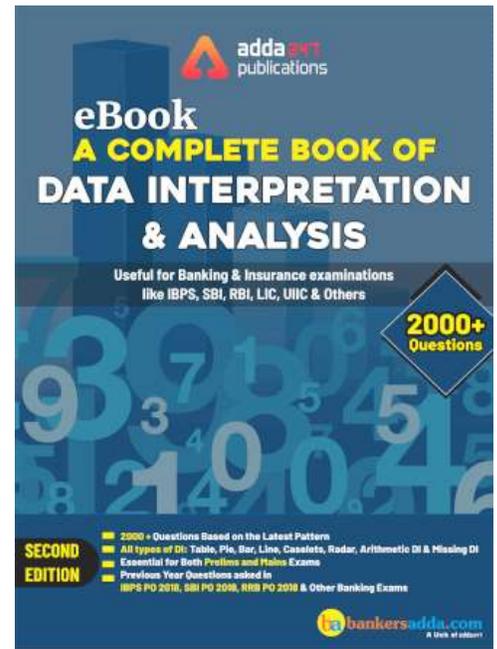
- (a) If $x=y$ or no relation can be established
- (b) If $x>y$
- (c) If $x<y$
- (d) If $x\geq y$
- (e) If $x\leq y$

Q45.

I. $8x^2 - 38x + 45 = 0$

II. $10y^2 - 41y + 42 = 0$

- (a) If $x=y$ or no relation can be established
- (b) If $x>y$
- (c) If $x<y$
- (d) If $x\geq y$
- (e) If $x\leq y$



Directions (46-50): The table given below shows the total population, total educated population and the percentage of educated male population in five different cities.

City	Total population (in thousand)	Total educated population (in thousand)	% of male in educated population
A	80	50	56
B	70	52	75
C	75	60	55
D	60	45	60
E	72	60	55

Q46. Find the average of the uneducated population of all the five cities ?

- (a) 16,000
- (b) 16,500
- (c) 18,000
- (d) 17,000
- (e) 18,500

Q47. Total population of educated male from cities A and E together is what percent more or less than the total educated male population from cities B and C together ?

- (a) $15\frac{5}{18}\%$
- (b) $14\frac{5}{18}\%$
- (c) $16\frac{5}{18}\%$
- (d) $16\frac{5}{9}\%$
- (e) $18\frac{5}{9}\%$

Q48. If the ratio of male to female in city A is 9 : 7. Then find the ratio of the uneducated female population to the uneducated male population in city A.

- (a) 17 : 13
- (b) 13 : 16
- (c) 16 : 13
- (d) 13 : 17
- (e) 12 : 17

Q49. Find the difference between the number of educated females from cities B and D together to the number of educated males from city B.

- (a) 6,000
- (b) 8,000
- (c) 5,500
- (d) 7,000
- (e) 6,500

Q50. The total population of city F is equal to the average of educated population of all the five cities. In city F, $66\frac{2}{3}\%$ of total population are unemployed and 40% of the employed population are females. Then find the number of employed male in city F.

- (a) 10,680
- (b) 10,480
- (c) 10,780
- (d) 10,880
- (e) 10,580

Q51. A goldsmith mixes two types of alloys. He takes 6 kg of the first alloy containing gold and silver in the ratio 3 : 2 and 18 kg of the second alloy containing gold and silver in the ratio 2 : 3. What is the ratio of gold and silver in the final alloy mixture ?

- (a) 9 : 11
- (b) 11 : 9
- (c) 9 : 7
- (d) 7 : 9
- (e) 3 : 4

Q52. An urn contains 6 red balls and 9 green balls. Two balls are drawn from the urn one after other without replacement. Find the probability of drawing a red ball when a green ball has been drawn from the urn.

- (a) $\frac{3}{15}$
- (b) $\frac{3}{7}$
- (c) $\frac{9}{14}$
- (d) $\frac{7}{11}$
- (e) $\frac{2}{5}$

Q53. 70% of a number is equal to 30% of another number. If average of both numbers is 24, then find the larger number

- (a) 14.4
- (b) 32.6
- (c) 33.6
- (d) 28.6
- (e) 24.2

Q54. The simple interest and compound interest earned by a man on the same amount at the same rate in 2 years are Rs. 4000 and Rs. 4180 respectively. Find the interest received by the man if he has invested Rs. 9000 at the same rate for 3 years on simple interest ?

- (a) Rs. 2430
- (b) Rs. 2700
- (c) Rs. 2100
- (d) Rs. 2790
- (e) Rs. 2400

Q55. Abhishek marks up the price of his scooter by 60% and allows a successive discount of 15% and 10% on it and sells it to Saurav. Saurav sells this scooter for Rs. 4800 more than what he purchased for and the selling price on which Saurav sold this scooter is 32% more than the original CP of the scooter. Then find the original CP of scooter.

- (a) Rs. 45,000
- (b) Rs. 48,000
- (c) Rs. 50,000
- (d) Rs. 52,000
- (e) Rs. 55,000

Directions (56-60): Find the wrong number in the following number series:

Q56. 3, 5, 13, 43, 175, 891

- (a) 891
- (b) 5
- (c) 43
- (d) 175
- (e) 13

Q57. 120, 135, 180, 255, 365, 495

- (a) 495
- (b) 180
- (c) 365
- (d) 135
- (e) 255

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Q58. 325, 343, 307, 361, 289, 375

- (a) 361
- (b) 307
- (c) 289
- (d) 325
- (e) 375

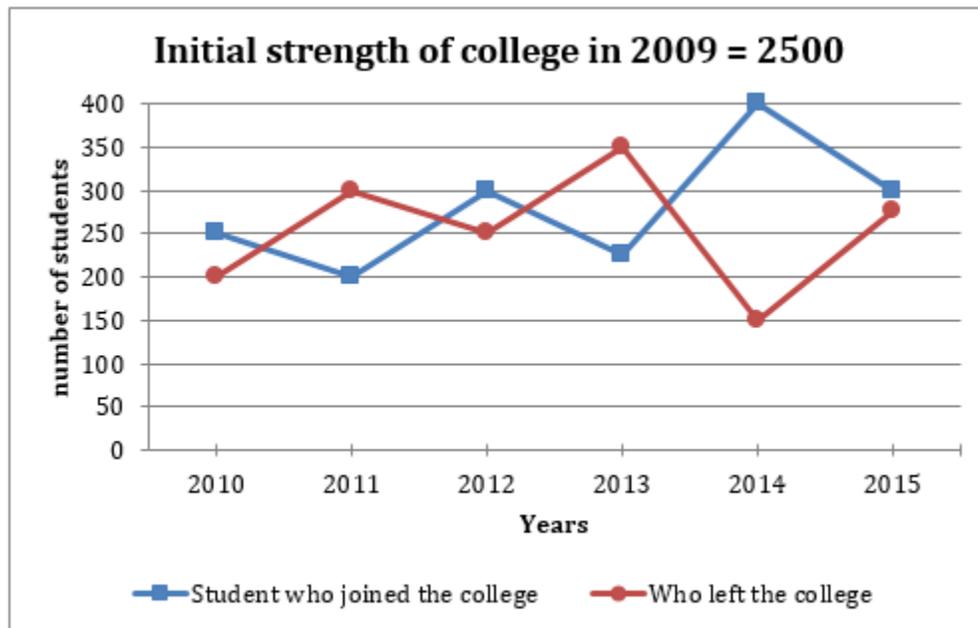
Q59. 178, 184, 211, 227, 352, 388

- (a) 178
- (b) 352
- (c) 388
- (d) 184
- (e) 227

Q60. 197, 180, 158, 123, 75, 12

- (a) 75
- (b) 197
- (c) 12
- (d) 180
- (e) 123

Directions (61-65): Study the following line graph which shows the number of students who joined and left the college in the beginning of year for six consecutive years from 2010 to 2015.



Q61. The number of students who joined the college in year 2013 and 2014 together is what percent more or less than the total number of students who left the college in year 2012 and 2013 together.

- (a) $5\frac{1}{6}\%$
- (b) $4\frac{1}{6}\%$
- (c) $5\frac{1}{2}\%$
- (d) 5%
- (e) 4%

Q62. For which year, the percentage rise/fall in the number of students who left the college compared to the previous year is maximum?

- (a) 2011
- (b) 2012
- (c) 2013
- (d) 2014
- (e) 2015

Q63. Find the average of all the students who joined the college in all the given six years.

- (a) $279\frac{1}{6}$
- (b) 280
- (c) $278\frac{2}{3}$
- (d) $278\frac{1}{6}$
- (e) $279\frac{1}{6}$

Q64. Find the percentage increase/decrease in the number of students studying in college from year 2012 to 2013.

- (a) 4%
- (b) $4\frac{1}{2}\%$
- (c) 5%
- (d) $5\frac{1}{2}\%$
- (e) 6%



Q65. Find the difference between the total number of students who have joined the college during six years and the number of students who left the college during all the six years ?

- (a) 125
- (b) 150
- (c) 100
- (d) 135
- (e) 140

Directions (66-70): Find the approximate value of given questions.

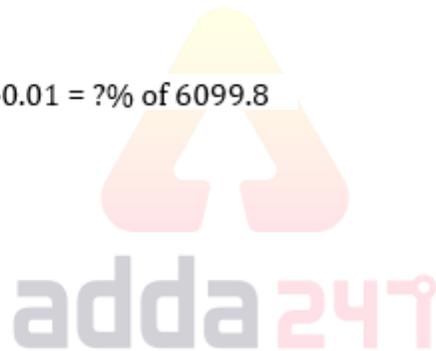
Q66.

$$(16.992)^2 + (21.012)^2 + \sqrt{2915.83} = (?)^2$$

- (a) 26
- (b) 28
- (c) 22
- (d) 23
- (e) 38

Q67. 59.9% of 959.8 + 65.11% of 240.01 = ?% of 6099.8

- (a) 15
- (b) 10
- (c) 20
- (d) 12
- (e) 7



Q68.

$$\sqrt{(12.9)^2 + 27.98 \div 4.01 - (3.01)^3} + ? = (15.93)$$

- (a) 107
- (b) 117
- (c) 93
- (d) 85
- (e) 125

Q69. 285.932 × 10.023 + 65.117 × 54.08 = ? + 163.99

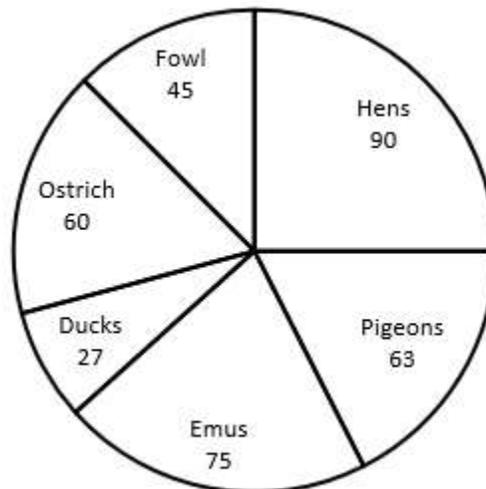
- (a) 6206
- (b) 6220
- (c) 6186
- (d) 6236
- (e) 6176

Q70. $999.989 \div 25.011 = ? - 222.883$

- (a) 255
- (b) 235
- (c) 263
- (d) 248
- (e) 250

Directions (71-75): The following pie-chart shows the distribution of varieties of poultry kept by Mr. Shikhar in degree.

Total number of poultry = 1440



Q71. Total number of Ducks and Ostrich together are how much more or less than total number of Pigeons and Hens together?

- (a) 244
- (b) 282
- (c) 264
- (d) 324
- (e) 364

Q72. Total number of ducks and pigeons together is what percent more/less than the total number of fowl and Emus together.

- (a) 20%
- (b) 25%
- (c) 27%
- (d) 30%
- (e) 35%

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Q73. Find the percentage corresponding to the total number of Ostrich, Pigeons and Ducks together.

- (a) $47\frac{3}{5}\%$
- (b) $44\frac{4}{9}\%$
- (c) $41\frac{2}{3}\%$
- (d) $54\frac{2}{3}\%$
- (e) $57\frac{3}{4}\%$

Q74. The total number of Fowls and Pigeons together are what percent of the total number of Ostrich and Emus together ?

- (a) 80%
- (b) 75%
- (c) 90%
- (d) 85%
- (e) 60%

Q75. Find the ratio of the total number of Hens, Ducks and Pigeons together to the total number of Ostrich, Fowl and Emus together.

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

Q76. Mr. Thomas can complete a work in 15 days by working 5 hours a day while John can complete the same work in 10 days by working 6 hours a day. If both work together, working 4 hours a day, then in how many days can the work be completed ?

- (a) $6\frac{1}{4}$ days
- (b) $8\frac{1}{3}$ days
- (c) 5 days
- (d) $7\frac{1}{2}$ days
- (e) 8 days

Q77. The sum of present age of Veer and Abhi is 56 years. The age of Abhi two years hence is equal to the age of Satish two years ago and the average of present age of Satish and Abhi is 26 years. Then find the present age of Veer ?

- (a) 26 years
- (b) 28 years
- (c) 30 years
- (d) 32 years
- (e) 34 years

Q78. The speed of boat in upstream is thrice the speed of current and the speed of boat in downstream is 30 km/hr. Then find the time taken by boat to travel 63 km in upstream.

- (a) 3.5 hr
- (b) 3 hr
- (c) 4.5 hr
- (d) 4 hr
- (e) 5 hr

Q79. Radius of a cone is equal to the side of an equilateral triangle having area $49\sqrt{3}$ cm². and the slant height of the cone is 8 cm more than the perimeter of triangle then find the volume of the cone.

- (a) 9646 cm³
- (b) 9586 cm³
- (c) 9716 cm³
- (d) 9856 cm³
- (e) None of these

Q80. P and Q make an investment in the ratio of 5 : 9. At the end of 7 months, P withdrew the whole amount. If they receive profits in the ratio of 7 : 9 then find for how many months Q's investment was used ?

- (a) 4 months
- (b) 5 months
- (c) 6 months
- (d) $4\frac{1}{2}$ months
- (e) 8 months

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