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Directions (1-5): Study the following information carefully and answer the questions given below:
Eight friends – P, Q, R, S, T, U, V and W – are sitting around a circular table. P and Q are facing towards the centre while the other six friends are facing away from the centre. P is sitting second to the right of W. Q sits third to the left of P. S sits second to the right of V. V is immediate neighbour of neither Q nor P. T and U are immediate neighbours and are facing outside. U sits second to left of R.

Q1. What is the position of R with respect to S?

- (a) Third to the right
- (b) Third to the left
- (c) Fourth to the left
- (d) Fourth to the right
- (e) Second to the left

Q2. Who is sitting on the immediate right of V?

- (a) R
- (b) S
- (c) U
- (d) W
- (e) None of these

Q3. Which of the following pairs represents the friends who are immediate neighbours of R?

- (a) Q and V
- (b) Q and W
- (c) V and W
- (d) S and V
- (e) None of these

Q4. Who is sitting third to the left of V?

- (a) P
- (b) S
- (c) T
- (d) U
- (e) Either T or U

Q5. How many friends are there between Q and S?

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

Directions (6-10): Read the following information carefully and answer the following questions.

Eight boxes T, U, C, D, P, Q, R and S are placed one above the other in any particular order. Box no. 1 is at the bottom and box no. 8 is at the top. Three boxes are placed between T and U. Box S is placed immediately below T. There are two boxes between S and R. There are as many boxes between C and D as between S and U. Box C is kept above D. Box P is kept immediately below box D. Three boxes are there between P and Q.

Q6. How many boxes are there above box D?

- (a) 4
- (b) 3
- (c) 6
- (d) 2
- (e) None of these

Q7. Which of the following boxes is kept at the top?

- (a) U
- (b) T
- (c) D
- (d) P
- (e) None of these

Q8. Choose the odd one out?

- (a) U
- (b) R
- (c) T
- (d) D
- (e) P

Q9. Which of the following boxes is kept between Q and T?

- (a) U
- (b) R
- (c) C
- (d) S
- (e) None as box Q is immediately above box T

Q10. How many boxes are there between C and T

- (a) Less than 2
- (b) 4
- (c) 5
- (d) 6
- (e) None of these

Directions (11-15): In these questions, relationships between different elements are shown in the statements. These statements are followed by two conclusions.

Give answer

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

Q11. Statement: $R \geq S \geq T > U > X$; $T < V < W$

Conclusions:

- I.** $R = X$
- II.** $X < W$

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Q12. Statement: $E = F < G < H; G \geq I$

Conclusions:

I. $H < I$

II. $E = I$

Q13. Statement: $A > B > F > C; D > E > C$

Conclusions:

I. $C > A$

II. $B \geq D$

14. Statement: $K \leq L \leq M = N; P \geq O \geq N$

Conclusions:

I. $K < P$

II. $K = P$

Q15. Statement: $D < E < F < G; K > F$

Conclusions:

I. $K < G$

II. $K > D$

Directions (16-20): Read the following information carefully and answer the following questions.

Seven students A, B, C, D, E, F and G will attend the seminar on different months viz. January, February, March, April, June, August and October of the same year, but not necessarily in the same order.

Only three students will attend the seminar before E and D is not one of them. F will not attend the seminar immediately after E. B will attend the seminar after F. A will attend the seminar immediately before the month in which G will attend the seminar. Only two students will attend the seminar between G and F.

Q16. How many students will attend the seminar between C and E?

(a) Three

(b) Two

(c) Four

(d) Five

(e) None of these

Q17. Who amongst the following will attend the seminar in the month of January?

(a) A

(b) C

(c) E

(d) B

(e) F

Q18. Who amongst the following will attend the seminar exactly between A and D?

(a) E

(b) G

(c) C

(d) B

(e) Both E and G

Q19. How many students will attend the seminar after D?

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

Q20. Who amongst the following is the student who will attend the seminar in the month which has less than 30 days?

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

Directions (21–25): In each question below are given some 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

- (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.

Q21. Statements:

All boy are girl.
No girl is black.
All black are white.

Conclusions:

- I.** Some boy is black.
- II.** Some white are girl.

Q22. Statements:

Some toy are joy.
Some joy are car.
All car are birds.

Conclusions:

- I.** Some car are joy.
- II.** All toy being birds is a possibility

Q23. Statements:

Some bird are red.
No rose is red.
All red are pink.

Conclusions:

- I.** Some bird are definitely not red.
- II.** Some pink are definitely not red.



Q24. Statements:

All cards are sheets.

All files are cards.

Some sheets are papers.

Conclusions:

I. All files being papers is a possibility.

II. All files are not sheets.

Q25. Statements:

Some bird are red.

No rose is red.

All red are pink.

Conclusions:

I. Some bird are not pink.

II. Some bird are not rose.

Directions (26-30): Study the following information to answer the given questions:

Twelve people are sitting in two parallel rows containing six people each such that they are equidistant from each other. In row 1: P, Q, R, S, T and V are seated and all of them are facing South. In row 2: A, B, C, D, E and F 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.

S sits third to the right of Q. Either S or Q sits at an extreme end of the line. The one who faces Q sits second to the right of E. Two people sit between B and F. Neither B nor F sits at an extreme end of the line. The immediate neighbour of B faces the person who sits third to the left of P. R and T are immediate neighbours. C sits second to the left of A. T does not face the immediate neighbour of D.

Q26. Who amongst the following sit at the extreme ends of the rows?

(a) S, D

(b) Q, A

(c) V, C

(d) P, D

(e) Q, F

Q27. Who amongst the following faces S?

(a) A

(b) B

(c) C

(d) D

(e) F

Q28. How many persons are seated between V and R?

(a) One

(b) Two

(c) Three

(d) Four

(e) None of these

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Q29. P is related to A in the same way as S is related to B based on the given arrangement. Which of the following is T related to, following the same pattern?

- (a) C
- (b) D
- (c) E
- (d) F
- (e) Cannot be determined

Q30. Which of the following is true regarding T?

- (a) F faces T.
- (b) V is an immediate neighbour of T.
- (c) F faces the who is second to the right of T.
- (d) T sits at one of the extreme ends of the line.
- (e) Q sits second to the right of T.

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

In a certain code 'facing problems with health' is coded as 'mlphltngisnk', 'health problems on rise' is coded as 'hltsartvmlp', rise with every challenge' is coded as 'snkrtvlneriy' and 'facing challenge each day' is coded as 'ngiriynophus'.

Q31. What could be a code for "lne"?

- (a) facing
- (b) with
- (c) every
- (d) rise
- (e) challenge



Q32. "riyrtvroi" could be a code for which of the following?

- (a) rise above challenge
- (b) rise health challenge
- (c) day rise challenge
- (d) with rise challenge
- (e) challenge every rise

Q33. Which of the following is the code for 'facing'?

- (a) nop
- (b) rtv
- (c) ngi
- (d) snk
- (e) sa

Q34. "riysnkmlp" could be a code for which of the following?

- (a) problem every day
- (b) challenge with health
- (c) with health day
- (d) every challenge facing
- (e) challenge facing with

Q35. Which of the following is the code for 'day'?

- (a) riy
- (b) nop
- (c) ngi
- (d) hus
- (e) Cannot be determined

Q36. What should come in place of question mark (?) in the following series based on the above arrangement?

AJ CL FO JS ?

- (a) LK
- (b) LO
- (c) LP
- (d) OX
- (e) Other than the given options

Q37. How many such pair of numbers are there in the given number "6295417" (Both backward and forward) same as far as according to numeric series?

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

Q38. If it is possible to make only one meaningful word with the 1st, 2nd, 4th and 7th letters of the word 'DONKEYS' which would be the second letter of the word from the right? If more than one such word can be formed give 'Y' as the answer. If no such word can be formed, give 'Z' as your answer.

- (a) Y
- (b) E
- (c) I
- (d) Z
- (e) M

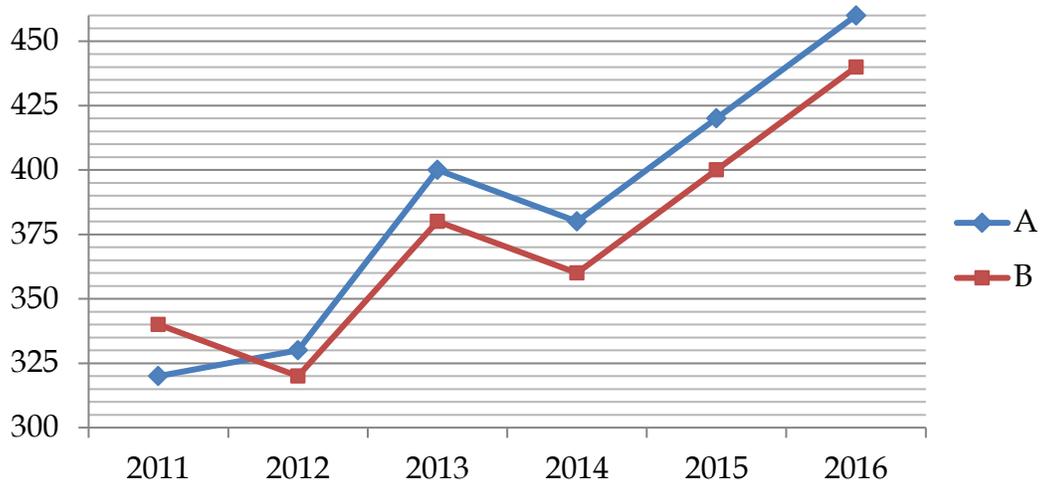
Q39. If 1 is subtracted from each odd number and 2 is added to each even in the number 4623957, then how many digits will appear twice in the new number thus formed?

- (a) Only 8
- (b) Only 8 and 6
- (c) 8, 6 and 4
- (d) 2, 4 and 6
- (e) None of these

Q40. How many letter will be remain the same position in the word 'SACHCHIDANAND' when they arranged in the alphabetical order from left to right?

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

Directions (41-45): The graph shows the no. of students in two classes A and B in five different years. Read the following graph and answer accordingly.



Q41. What is the sum of difference between number of students through all these years in A and B?

- (a) 120
- (b) 130
- (c) 125
- (d) 110
- (e) None of these

Q42. Total number of students in 2012 and 2015 is what percent of the total number of student from A in all these years?

- (a) 63.6%
- (b) 65%
- (c) 70%
- (d) 62%
- (e) 60%

Q43. What is the ratio of Number of children in Class B for all the years to the total number of student in class A for all the years?

- (a) 31 : 33
- (b) 32 : 35
- (c) 32 : 33
- (d) 29 : 33
- (e) 33 : 35

Q44. What is the sum total of student for A in 2011, 2013 and total number of students in 2015 & 2016 for B?

- (a) 1560
- (b) 1400
- (c) 1500
- (d) 1460
- (e) None of these

Q45. Total students in class B for all the years is approximately what percent less than total no of students in both schools for all these years?

- (a) 55%
- (b) 58%
- (c) 60 %
- (d) 50.8%
- (e) 62.2%

Directions (46-50): What should come in place of the question mark (?) in the following number series.

Q46. 12, 7, 8, 13, 27, ?

- (a) 75
- (b) 76
- (c) 60
- (d) 65
- (e) None of these

Q47. 15, 24, 49, 98, 179, ?

- (a) 310
- (b) 300
- (c) 305
- (d) 315
- (e) None of these

Q48. 5, 6, 14, 45, ?, 925

- (a) 184
- (b) 243
- (c) 234
- (d) 232
- (e) None of these

Q49. 9, 11, 22, 51, 107, ?

- (a) 195
- (b) 210
- (c) 200
- (d) 199
- (e) None of these

Q50. 67, 75, 59, 91, 27, ?

- (a) 180
- (b) 155
- (c) 170
- (d) 120
- (e) None of these



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Directions (51-55): Given below are two equations in each question, which you have to solve and give answer

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

Q51. I. $2x^2 - 5x + 2 = 0$

II. $2y^2 - 9y + 7 = 0$

Q52. I. $3x^2 + 7x + 4 = 0$

II. $y^2 + 9y + 20 = 0$

Q53. I. $3x^2 + 5x + 2 = 0$

II. $y^2 + 12y + 27 = 0$

Q54. I. $x^2 - 7x + 10 = 0$

II. $y^2 - 14y + 45 = 0$

Q55. I. $(x - 16)^2 = 0$

II. $y^2 = 256$

Q56. The cost price of an article increases by Rs. 100. The selling price increases by 10%. If the new profit decreases from 15% to 10%, what is the original cost price?

- (a) Rs. 765
- (b) Rs. 666.66
- (c) Rs. 700
- (d) Rs. 540
- (e) Rs. 766.67

Q57. B's age is 6 years older than A. if the ratio of B's age 9 years hence and C's present age is 9 : 8. At present C's age is twice A's age. What will be age of B after 5 years.

- (a) 18 years
- (b) 25 years
- (c) 23 years
- (d) 24 years
- (e) 48 years

Q58. Akash scored 73 marks in subject A. He scored 56% marks in subject B and X marks in subject C. Maximum marks in each subject were 150. The overall percentage marks obtained by Akash in all the three subjects together were 54%. How many marks did he score in subject C?

- (a) 84
- (b) 86
- (c) 79
- (d) 73
- (e) None of these

Q59. B takes 2 days less than A to do a work. If B worked for 3 days first after which A took over, then a total no. of $11\frac{2}{5}$ days were taken to complete the work. How many days do B require to do the work alone?

- (a) 16
- (b) 10
- (c) 14
- (d) 18
- (e) None of these

Q60. Train A, travelling at 84 kmph, overtook train B, traveling in the same direction, in 10 seconds. If train B had been traveling at twice its speed, then train A would have taken 22.5 seconds to overtake it. Find the length of train B, given that it is half the length of train A.

- (a) 50m
- (b) 45m
- (c) 54m
- (d) 58m
- (e) None of these

Q61. In a bag there are 7 red balls and 5 green balls. Three balls are picked at random. What is the probability that two balls are red and one ball is green in colour?

- (a) $\frac{29}{44}$
- (b) $\frac{21}{44}$
- (c) $\frac{27}{44}$
- (d) $\frac{23}{44}$
- (e) $\frac{19}{44}$

Q62. Kumar purchased 320 kg of rice at Rs 17.60 per kg and mixed it with 160 kg of rice purchased at Rs 16.40 per kg. He wants to earn a profit of Rs 9.45 per kg by selling it. What should be the selling price of the mixture per kg?

- (a) Rs 25
- (b) Rs 26.65
- (c) Rs 28.45
- (d) Rs 25.65
- (e) None of these

Q63. Aman started a business by investing Rs 56000. After 5 months, Bharti joined him with a capital of Rs 48000. At the end of the year Bharti received Rs 3250 as share of profit. What is the total profit at the end of the year?

- (a) Rs 9650
- (b) Rs 9750
- (c) Rs 6500
- (d) Rs 9700
- (e) None of these

Q64. If the ratio of curved surface area to the volume of cylinder 1 : 7 while the ratio of diameter to the height of cylinder is 4 : 3. Find total surface area of cylinder?

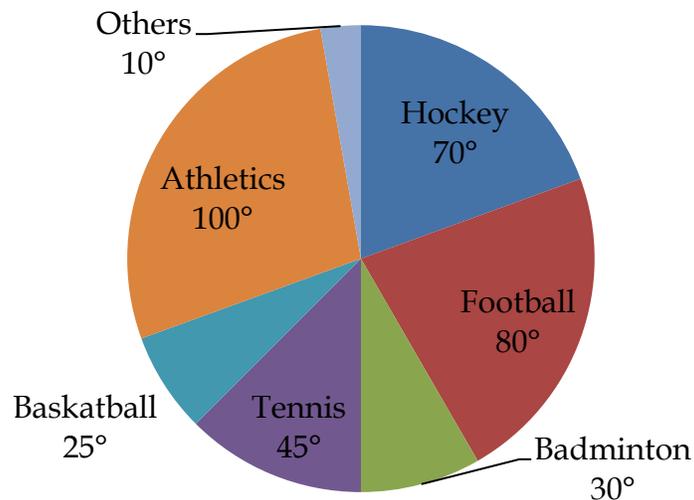
- (a) 3100
- (b) 3180
- (c) 3000
- (d) 3080
- (e) None of these

Q65. If time taken to cover (D+11) km upstream is thrice the time taken to cover (D-3) km downstream. If ratio of speed of boat in upstream to the downstream is 3 : 7 and time taken to cover (D+18) km downstream is 2.5 hours what will be the speed of current?

- (a) 4 km/hr
- (b) 6 km/hr
- (c) 8 km/hr
- (d) 10 km/hr
- (e) None of these

Directions (66-70): Study the following pie chart showing the distribution of sports budget among various sports to answer the questions that follow.

Spending of total Sport budget 144 crore.



Q66. What percentage of total spending is spent on Tennis?

- (a) 12.5%
- (b) 18%
- (c) 14%
- (d) 10%
- (e) None of these

Q67. How much more is spent on Hockey than on Basketball ?

- (a) 15 cr
- (b) 12 cr
- (c) 18 cr
- (d) 20 cr
- (e) None of these

Q68. If total spending on Hockey is increased by 20% while that of football is decreased by 30%, what will be difference between their spending on hockey and football?

- (a) 11.8 Cr
- (b) 11.2 Cr
- (c) 10.9 Cr
- (d) 12.1 Cr
- (e) None of these

Q69. What is the ratio of amount spent on Hockey, football and Tennis to Rs. 84 crore?

- (a) $\frac{11}{14}$
- (b) $\frac{13}{14}$
- (c) $\frac{3}{7}$
- (d) $\frac{4}{9}$
- (e) None of these

Q70. If for another game, billiards with additional budget of 17 crore is allocated, what is the difference between amounts spend on Others & Billiards?

- (a) 12cr
- (b) 10 cr
- (c) 18 cr
- (d) 13 cr
- (e) 20 cr

Directions (71-75): What approximate value will come in place of (x) in the following questions ?

Q71. $x^2 - 899.01 = 29.99\%$ of $299 - 28.99$

- (a) 25
- (b) 40
- (c) 38
- (d) 35
- (e) 31

Q72. 54.99% of $399.9 + 50.11\%$ of $599.99 - 499.9 = \sqrt{x}$

- (a) 200
- (b) 350
- (c) 400
- (d) 300
- (e) 450

Q73. $\sqrt{1023.99} + \sqrt{63.89} + \sqrt{960.89} + x = 24.99\%$ of 699.99

- (a) 104
- (b) 111
- (c) 96
- (d) 90
- (e) 120



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Q74. $349 \div 49 + (9.99)^2 \times 19.99 = x^3 - 18.99\%$ of 999.99

- (a) 10
- (b) 8
- (c) 17
- (d) 13
- (e) 19

Q75. $(26.99)^2 + (15.91)^2 + \sqrt{x} = 20.11\%$ of 4999.99

- (a) 196
- (b) 175
- (c) 200
- (d) 210
- (e) 225

Directions (76-80): Given below is a table which gives details about the students of a school ABC in different years. The table gives the ratio of no. of students who play cricket to that of football. The table also gives the ratio of no. of boys to girls.

Year	Total students	Boys : Girls	Boys	Girls
			Cricket : Football	Cricket : Football
2000	600	5 : 7	3 : 2	3 : 4
2001	700	13 : 12	3 : 1	1 : 3
2002	825	3 : 2	4 : 5	4 : 7
2003	650	7 : 6	3 : 4	7 : 3
2004	550	5 : 6	1 : 1	8 : 7

Q76. What is the difference between the no. of girls playing cricket in 2001 and the no. of boys playing football in 2002?

- (a) 191
- (b) 198
- (c) 178
- (d) 154
- (e) None of these

Q77. What is the sum of average no. of boys playing cricket in 2000, 2002 and 2003 and the average no. of girls playing football in the same years?

- (a) 350
- (b) 340
- (c) 360
- (d) 370
- (e) None of these

Q78. In 2005, the total no. of students increased by $72\frac{8}{11}\%$ as compared to 2004, and the ratio of boys to girls becomes 9 : 10, then find the no. of girls playing football in 2005 if 40% of the girls played cricket in 2005?

- (a) 450
- (b) 400
- (c) 300
- (d) 350
- (e) None of these

Q79. What is the average no. of boys in the school in those years where no. of boys is less than no. of girls?

- (a) 200
- (b) 350
- (c) 300
- (d) 250
- (e) None of these

Q80. Find the ratio of no. of girls playing cricket in 2000, 2002 & 2004 to the no. of boys playing cricket in 2001 and 2003 ?

- (a) 430 : 423
- (b) 430 : 432
- (c) 432 : 423
- (d) 419 : 423
- (e) None of these





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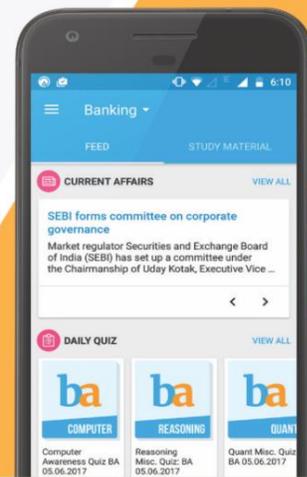
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