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Directions (1-5): These questions are based on the following alphabet and digit series.

D 5 P K L 8 Z M C I 6 O Q U E 1 T N R 4 G B A 9 F S W 2 H J V 7 Y X 3

Q1. How many digits are there in above arrangement which is immediately followed by vowel?
(a) Two
(b) Four
(c) One
(d) Three
(e) None

Q2. If all the vowels are deleted from the above arrangement, then which of the following letter/digit is 10th to left of 5th from the right end?
(a) R
(b) 4
(c) G
(d) 9
(e) None of these

Q3. Which of the following letter/digit is 7th to the right of 13th from the right end?
(a) A
(b) 2
(c) H
(d) 9
(e) None of these

Q4. How many consonants are there in above arrangement which is immediately preceded by consonant and immediately followed by vowel?
(a)Four
(b) Three
(c) Two
(d) One
(e) None

Q5. Four of the following five belong to a group in a certain way, find which of the one does not belong to the group?
(a) O4
(b) 5X
(c) K7
(d) M2
(e) 8J

Directions (6-10): Study the following information carefully to answer the given questions:

Eight friends S, T, U, V, W, X, Y and Z are sitting around a circular table, but not necessarily in the same order. Some of them are facing inside while some are facing outside.
W sits third to the left of V. Two friends sit between W and U, who facing same side as W. Z sits third to the right of Y. Z does not sit near to V. S does not face V. Y sits immediate right of U. S sits immediate right of X, who facing same direction as W. T does not sit near to U. Z and T facing same side as Y. T does not face inside the circle.

Q6. Who among the following sits between W and T?
(a) Z
(b) S
(c) Y
(d) T
(e) None of these

Q7. Who among the following sits opposite to Z?
(a) S
(b) X
(c) T
(d) U
(e) None of these

Q8. Four of the following five belong to a group in a certain way, find which of the one does not belong to that group?
(a) Z
(b) X
(c) T
(d) S
(e) Y

Q9. How many friends sit between T and Y, when counted clockwise direction from Y?
(a) One
(b) Two
(c) Three
(d) Four
(e) None

Q10. What is the position of S with respect to U?
(a) Third to the right
(b) Third to the left
(c) Second to the right
(d) Immediate left
(e) Immediate right

Directions (11-13): In these questions, relationship between different elements is shown in the statements. The statements are followed by conclusions.
Give answer
(a) If only conclusion I is true
(b) If only conclusion II is true
(c) If either conclusion I or II is true
(d) If neither conclusion I nor II is true
(e) If both conclusions I and II are true

Q11. Statements: A ≤ D > B ≥ F; E < C ≤ B; G ≤ D > H
Conclusions
I. E < D
II. G > A

Q12. Statements: T < D ≤ I = U ≤ N; Z > D ≥ M > L
Conclusions
I. T < L
II. M ≤ N

Q13. Statements: Q ≥ Z < P ≤ S; Q ≤ X = Y < R
Conclusions
I. Q ≤ R
II. S ≤ Y

Directions (14-18): Study the following information carefully and answer the questions given below:

Seven persons P, Q, R, S, T, U and V attend classes on different days of a same week starting from Monday to Sunday. (No two persons attend class on same day). Only three persons attend class between U and S, who attend after Thursday. Only one person attend class between P and T, but none of them attend class on Friday and Saturday. R attends class before V but after Q. Q does not attend class immediate before or after P. P attends class after T.

Q14. Who among the following attend class immediately before U?
(a) S
(b) R
(c) T
(d) V
(e) Q

Q15. On which day V attends class?
(a) Monday
(b) Tuesday
(c) Wednesday
(d) Friday
(e) Saturday

Q16. Who among the following attends class on Thursday?
(a) T
(b) U
(c) P
(d) R
(e) V

Q17. How many persons attends class between T and S?
(a) One
(b) Two
(c) Three
(d) Four
(e) More than Four

Q18. Who attends class on Tuesday and Friday respectively?
(a) T, R
(b) U, V
(c) V, U
(d) Q, R
(e) R, T

Directions (19-22): In each of the following questions some statements are given and these statements are followed by two conclusions numbered (1) and (2). You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read 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 (1) conclusion follows.
(b) If only (2) conclusion follows.
(c) If either (1) or (2) follows.
(d) If neither (1) nor (2) follows.
(e) If both (1) and (2) follow.

Q19. Statements: All Mate are Date. Some Cat are Bat. No Mate is Cat.
Conclusions:1. All Bat can be Mate.
2. Some Date are Mate.

Q20. Statements: Some Cable are Wire. Some Hire are Wire. No Cable is Hire. Some Label are Hire.
Conclusions: 1. Some Label are not Cable.
2. Some Label are Cable.

Q21. Statements: Some Catch are Batch. Some Watch are Batch. All Catch are Match.
Conclusions: 1. All Watch can never Match.
2. Some Match being Batch is a possibility.

Q22. Statements: All Book are Journal. All Journal and Note are File. Some Diary are Note. No Note is Book.
Conclusions: 1. All File can never Book.
2. All Note being Journal is a possibility.

Directions (23-27): Study the following information carefully and answer the questions given below:

Five persons J1, J2, J3, J4, J5 travel to five different cities viz. Chennai, Mumbai, Delhi, Goa and Kolkata from five different airlines viz. Air India, Spicejet, Etihad, Vistara and Jet Airways.
The one who goes to Kolkata does not travel from Air India. J1 does not travel to Kolkata or Goa. J2 does not travel from Vistara or Etihad. J3 goes to Mumbai. J5 neither goes to Kolkata nor he travel from Vistara. J3 does not travel from Etihad. J1 travel from Jet Airways. The one who travel to Chennai travel with Vistara.

Q23. The one who goes to Goa travels from which Airline?
(a) SpiceJet
(b) Air India
(c) Jet Airways
(d) Etihad
(e) Cannot be determined

Q24. Who among the following travel from SpiceJet?
(a) J2
(b) J3
(c) J4
(d) J5
(e) Cannot be determined

Q25. J2 travels to which among the following city?
(a) Delhi
(b) Goa
(c) Chennai
(d) Kolkata
(e) Cannot be determined

Q26. Who among the following travels to Delhi?
(a) J1
(b) J2
(c) J4
(d) J5
(e) Cannot be determined

Q27. Who among the following travels from Vistara?
(a) J2
(b) The one who travel to Chennai
(c) J4
(d) The one who travel to Kolkata
(e) Both (b) and (c)

Directions (28-30): Study the following information carefully and answer the questions.
In a certain code language,
'happy joy life extra' is written as 'xi me bu oe',
'sad live joy time' is written as 'bu ru qi he',
'extra live was fun' is written as 'ae su qi oe',
'dear sad try life' is written as 'pe he ce xi',
and 'was dear fun' is written as 'ae ce su'.

Q28. What is the code for 'time'?
(a) su
(b) bu
(c) ru
(d) Can't be determined
(e) none of these

Q29. Which of the following is the code for 'try extra happy'?
(a) me oe pe
(b) su qi ce
(c) oe he pe
(d) me ce he
(e) None of these

Q30. What is the code for 'life'?
(a) me
(b) su
(c) qi
(d) xi
(e) None of these

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

Eight persons J, K, L, M, N, O, P and Q are sitting in a straight line facing north. P sits fourth to the left of L. P does not sit at any end of the line. Two persons sit between P and Q. O sits right side of L. J does not sit between P and Q. K does not sit near to P. Two persons sit between J and K. N is not immediate neighbour of O and he does not sit at any extreme end. Only J sits between M and the one who sits immediate left of N.

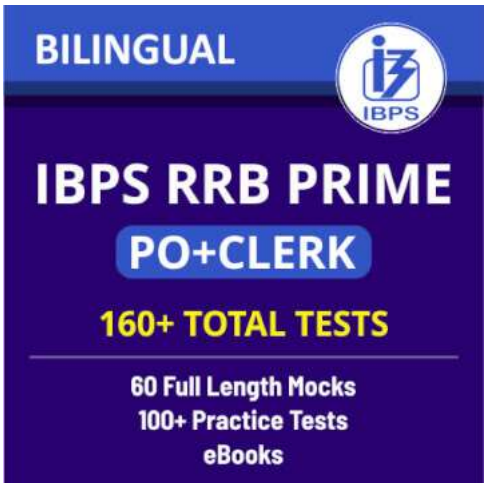
Q31. Who among the following sits fourth to the left of K?
(a) O
(b) Q
(c) P
(d) M
(e) None of these

Q32. Who among the following sits second to the right of Q?
(a) N
(b) J
(c) O
(d) M
(e) None of these

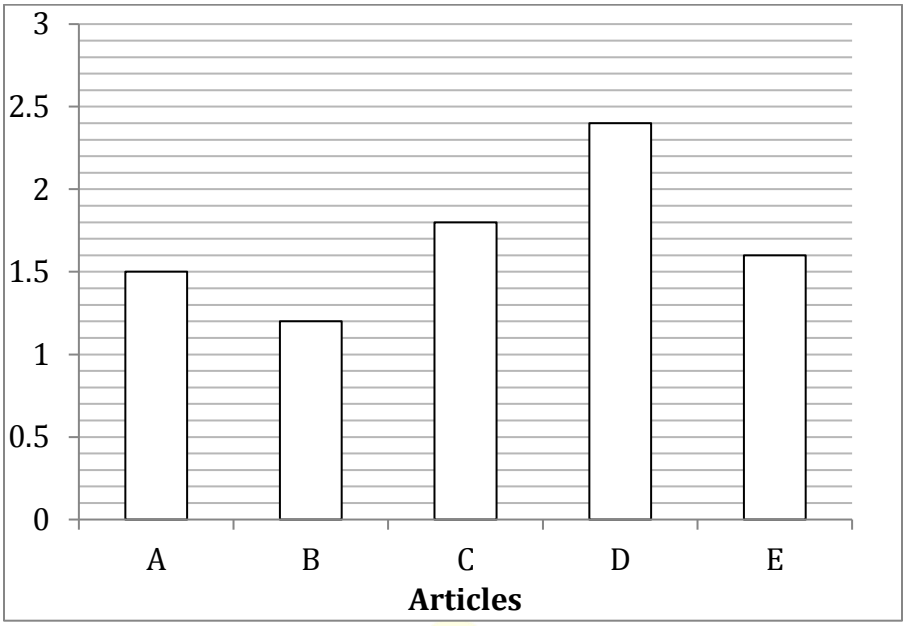
Q33. How many persons sit between J and Q?
(a) Two
(b) Four
(c) One
(d) Three
(e) None of these

Q34. Four of the following five belong to a group in a certain way, find which of the one does not belong to that group?
(a) P, M
(b) K, J
(c) N, J
(d) L, K
(e) O, Q

Q35. Who among the following sit at extreme ends?
(a) M, L
(b) J, O
(c) O, M
(d) J, L
(e) L, Q



Directions (36-40): Given bar graph shows the ratio of marked price to selling price of five articles sold by a shopkeeper. Read the information carefully and answer the following questions.



Q36. What is the discount% on article B.

(a) 205

(b) 16 ⅔%

(c) 40%

(d) 8 ⅓%

(e) 50%

Q37. If mark price of article C is 200% above cost price then find the profit % an selling article C.

(a) 33 ⅓%

(b) 16 ⅔%

(c) 66 ⅔%

(d) 48 ½%

(e) 50%

Q38. On article E shopkeeper earn 50 Rs. which is 20% of C.P. what is the difference between cost price and mark price of article.

(a) 240 Rs.

(b) 210 Rs.

(c) 245 Rs.

(d) 230 Rs.

(e) 235 Rs.

Q39. Mark price of article D is 264 Rs. If profit is 30 Rs. then find the profit % on it.
(a) 32%
(b) 37.5%
(c) 12.25%
(d) 25%
(e) 27%

Q40. Article A has cost of 200 Rs. if mark price is 80% above cost price then find value of discount on it.
(a) 200 Rs.
(b) 150 Rs.
(c) 120 Rs.
(d) 110 Rs.
(e) 140 Rs.

Q41. If $X^2 - Y^2 = 112$ and $X = Y + 4$ then find the ratio of X to Y?
(a) 3:2
(b) 4:3
(c) 2:1
(d) 5:4
(e) 6:5

Q42. The circumference of two circles is 176 cm and 220 cm respectively. There is a square whose side is 36 cm less than sum of the radius of both the circles. Then, find the area of that square (in cm^2)?
(a) 841
(b) 784
(c) 676
(d) 729
(e) 525

Q43. A invested $22\frac{1}{2}$% more than Z and B invested 20% less than Z. If the time period of investment is same for all and the difference of profit shares of A and B is Rs. 765. Then find the profit share of A is how much more than that of Z.
(a) Rs. 405
(b) Rs. 385
(c) Rs. 418
(d) Rs. 425
(e) Rs. 400

Q44. Ratio of still water speed of a boat to speed of current is 3 : 1. It covers 45 km in downstream in X hours and 27 km in upstream in $\left(X+\frac{1}{2}\right)$ hours. Find speed of boat in upstream.

(a) 6 km/hr
(b) 4 km/hr
(c) 5 km/hr
(d) 8 km/hr
(e) None of these

Q45. Present age of father is 6 year more than twice of the present age of his son. Four years later, average age of father and son will be 34 years. Find ratio of present age of son to that of father?

(a) 3:7
(b) 2:1
(c) 5:2
(d) 11:6
(e) 9:4

Q46. A train X running at 45 km/hr crosses a platform which is $\frac{2}{3}rd$ of length of another train Y in 12 seconds. If ratio of length of train X to that of train Y is 16:21. Find time taken by both train to cross each other if train Y are running in opposite direction at 27 km/hr.

(a) $10\frac{1}{2}$ sec
(b) None of these
(c) $7\frac{1}{2}$ sec
(d) $9\frac{1}{4}$ sec
(e) $8\frac{1}{3}$ sec

Q47. A number when increased by $87\frac{1}{2}\%$, it becomes $83\frac{1}{3}\%$ of another number. Find the ratio of both numbers?

(a) 12:7
(b) 7:4
(c) 5:3
(d) 3:1
(e) 9:4

Q48. Side of square is equal to the length of rectangle. Area of that square is 336 cm^2 more than the area of rectangle. If sides of rectangle are in ratio (length: breadth) of 7:4 then find perimeter of square?

(a) 112 cm
(b) 120 cm
(c) 144 cm
(d) 96 cm
(e) 100 cm

Q49. A sum gives an interest of Rs 1980 in 6 years at $7\frac{1}{2}$% pa. on SI. How much interest can be earned in 4 year with 12% pa on SI?

(a) Rs 2043
(b) Rs 2082
(c) Rs 2112
(d) Rs 2162
(e) Rs 2442

Q50. Arun spent 60% of his monthly salary on accommodation and 15% of remaining salary on entertainment. If the difference of amount spent on accommodation and his saving is Rs 3510 then find his monthly salary?

(a) Rs 12,500
(b) Rs 13,500
(c) Rs 12,800
(d) Rs 14,000
(e) Rs 15,000

Directions (51-55): In the following questions two quantities are given for each question. Compare the numeric value of both the quantities and answers accordingly

Q51. Ram invested Rs80000 for a year and Shyam invested Rs72000 For 8 months.
Quantity I : If total profit at the end of year is Rs11400 then the share of Ram.
Quantity II : Rs. 1420
(a) Quantity I > Quantity II
(b) Quantity II > Quantity I
(c) Quantity I ≥ Quantity II
(d) Quantity II ≥ Quantity I
(e) Quantity I = Quantity II or relation can't be established

Q52. 24 men can do a work in 20 days and 36 women can do the same work in 24 days
Quantity I : Time taken by 12 man to complete whole work
Quantity II : Time taken by 16 women to complete whole work.
(a) Quantity I > Quantity II
(b) Quantity II > Quantity I
(c) Quantity I ≥ Quantity II
(d) Quantity II ≥ Quantity I
(e) Quantity I = Quantity II or relation can't be established

Q53. Average age of A, B and C is 37 years and average age of A and B is 23 years
Quantity I : What is the age of C
Quantity II : 65 years
(a) Quantity I > Quantity II
(b) Quantity II > Quantity I
(c) Quantity I ≥ Quantity II
(d) Quantity II ≥ Quantity I
(e) Quantity I = Quantity II or relation can't be established

Q54. A train of length 360 m is travelling at a speed of 54 km/hr
Quantity I : Find the time take by train to cross a pole
Quantity II : If its speed is increased by $16\frac{2}{3}\%$ then find the time in which it can cross a platform of length 130 m
(a) Quantity I > Quantity II
(b) Quantity II > Quantity I
(c) Quantity I ≥ Quantity II
(d) Quantity II ≥ Quantity I
(e) Quantity I = Quantity II or relation can't be established

Q55. Quantity I : A sphere of diameter 13.4 cm is melted and cast into a right circular cone of height 26.8 cm. The radius of the base of the cone is ?
Quantity II: 5.95 cm.
(a) Quantity I > Quantity II
(b) Quantity II > Quantity I
(c) Quantity I ≥ Quantity II
(d) Quantity II ≥ Quantity I
(e) Quantity I = Quantity II or relation can't be established

Directions (56-65): What should come in place of question mark (?) in the following questions?

Q56. $\frac{19.65\times14}{3} + 108.87 - 24.57 - ? = (13)^2$
(a) 3
(b) 7
(c) 5
(d) 9
(e) 11

Q57. 37% of $? + (11)^2 - 28.5 \times 6 + 12 = (31)^2$
(a) 2650
(b) 2600
(c) 2750
(d) 2700
(e) 2760

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Q58. (26% of 3800 + 25% of 620) ÷ 33 + $\frac{4}{11}$ = ?

(a) 35
(b) 45
(c) 25
(d) 55
(e) 65

Q59. $(27)^{2.6} \times \frac{1}{(81)^{0.7}} + (32)^{0.8}$ = ?% of 1036

(a) 15
(b) 35
(c) 25
(d) 45
(e) 40

Q60. 27.8 × 6 + 38.9 × 7 – ? = $(13)^2 + \sqrt{400}$

(a) 240.1
(b) 250.1
(c) 230.1
(d) 235.1
(e) 260.1

Q61. $\left(\sqrt[3]{4096} + \sqrt[3]{5832}\right) \div \sqrt{289} = (?)^{0.2}$

(a) 64
(b) 16
(c) 27
(d) 2
(e) 32

Q62. $\frac{3}{8}$ of $\frac{5}{27}$ of $\frac{32}{45}$ of 2187 = ? % of 400

(a) 21
(b) 23
(c) 25
(d) 27
(e) 29

Q63. $4\frac{7}{12} + 6\frac{5}{6} - 8\frac{3}{4} = ? + 1\frac{2}{3}$

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

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Q64. 56% of 4750 + 475% of 12 – $(?)^2$ = 217
(a) 40
(b) 60
(c) 50
(d) 45
(e) 55

Q65. (87.98 + 56.64 + 123.58) – (47.6 + 28.6) – ? = $(12)^2$
(a) 42
(b) 40
(c) 45
(d) 38
(e) 48

Directions (66- 70): What will come at the place of question(?) mark.

Q66. 22, ?, 166, 310, 502, 742
(a) 60
(b) 70
(c) 50
(d) 80
(e) 90

Q67. 28, 18, ?, 37, 78, 199
(a) 20
(b) 16
(c) 22
(d) 24
(e) 28

Q68. 25, 90, ?, 177, 203, 220
(a) 150
(b) 148
(c) 144
(d) 140
(e) 160

Q69. 103, ?, 190, 247, 313, 388
(a) 132
(b) 122
(c) 152
(d) 162
(e) 142

Q70. 21, ?, 199, 603, 1817, 5461
(a) 65
(b) 55
(c) 45
(d) 75
(e) 85