IBPS RRB PO 2024 Prelims Memory Based Paper PDF

Q1. Find the missing term: 10, 16, ?, 28, 34, 40

(a) 22
(b) 26
(c) None of these
(d) 20
(e) 18

Q2. Study the following sequence carefully and answer the question given below:
8 L 4 R 5 4 V B $ 7 V 4 7
How many times does a letter is immediately preceded by a digit and immediately followed by a digit in the above sequence?

(a) 4
(b) None of these
(c) 2
(d) 1
(e) 3

Q3. Rohit introduced Isha as the son of the only brother of Rohit's mother. How is Isha related to Rohit?

(a) Nephew
(b) Brother
(c) Uncle
(d) Cousin
(e) Son

Q4-Q8. The bar graph below shows the number of units (in tens) of two products P and Q sold by a store over six months. Study it and answer the questions that follow.

Product P: Jan-155, Feb-130, Mar-190, Apr-185, May-225, Jun-265
Product Q: Jan-100, Feb-50, Mar-270, Apr-80, May-90, Jun-130

Q4. What is the total number of units (in tens) of products P and Q sold together in Apr?

(a) None of these
(b) 296
(c) 238
(d) 265
(e) 253

Q5. What is the difference in units sold between Product P and Product Q in Mar?

(a) -57
(b) -105
(c) -80
(d) None of these
(e) -92

Q6. Find the average monthly sale (in tens) of Product P over the six months.

(a) 211.09
(b) 169.97
(c) 208.62
(d) None of these
(e) 191.67

Q7. What is the total number of units (in tens) of Product Q sold over all six months?

(a) 758
(b) 671
(c) None of these
(d) 720
(e) 768

Q8. What is the ratio of units sold of Product P to Product Q in Apr?

(a) 35:17
(b) None of these
(c) 37:16
(d) 39:16
(e) 38:17

Q9. Pointing to a photograph, Kiran said, "Anita is the son of my father's only son." How is Anita related to Kiran?

(a) Father
(b) Cousin
(c) Brother
(d) Son
(e) Nephew

Q10. Study the following sequence carefully and answer the question given below:
2 6 S 5 9 A G N U $ 6 $ 0
How many times does a symbol immediately follows a letter in the above sequence?

(a) 1
(b) None of these
(c) 3
(d) 0
(e) 2

Q11. $305 \times 9 \div 90 + \sqrt{169} - 210 \div 5 \approx ?$ (find the approximate value)

(a) None of these
(b) 1.33
(c) 1.50
(d) 1.67
(e) 1.70

Q12-Q16. The pie chart below shows the percentage distribution of 4600 students enrolled across six streams A, B, C, D, E, F. Study it and answer the questions that follow.

A: 17%, B: 15%, C: 26%, D: 27%, E: 5%, F: 10%

Q12. How many students are enrolled in stream B?

(a) 664
(b) None of these
(c) 668
(d) 600
(e) 690

Q13. What is the difference between the number of students in stream B and stream C?

(a) 447
(b) 415
(c) 603

(d) None of these
(e) 506

Q14. What is the central angle (in degrees) representing stream F in the pie chart?
(a) 32.42
(b) None of these
(c) 38.30
(d) 34.89
(e) 36

Q15. What is the ratio of the number of students in stream B to stream C?
(a) 13:27
(b) None of these
(c) 13:25
(d) 15:26
(e) 14:25

Q16. How many students are NOT enrolled in stream A?
(a) None of these
(b) 3818
(c) 3492
(d) 3380
(e) 3644

Q17. Neha introduced Manoj as the son of the only brother of Neha's mother. How is Manoj related to Neha?
(a) Brother
(b) Uncle
(c) Nephew
(d) Son
(e) Cousin

Q18. (4^3) − (8^2) + 11 ÷ 4 = ?
(a) 3
(b) None of these
(c) 2.56
(d) 2.98
(e) 2.75

Q19. What is the code for 'rain' in a certain code language?
I. 'rain is bright' is written as 'G T Y'.
II. 'moon is bright' is written as 'N T Y'.
(a) Neither statement I nor II is sufficient
(b) Only statement I alone is sufficient
(c) Either statement I or II alone is sufficient
(d) Only statement II alone is sufficient
(e) Both statements I and II together are necessary

Q20. Study the following sequence carefully and answer the question given below:
7 0 Q 4 1 6 7 2 Y P 4 5 H
How many times does a symbol immediately follows a letter in the above sequence?
(a) 1
(b) 0
(c) 2

(d) None of these
(e) 4

Q21. Is the number x an even number?
I. x is completely divisible by 10.
II. x is completely divisible by 4.
(a) Only statement I alone is sufficient
(b) Both statements I and II together are necessary
(c) Either statement I or II alone is sufficient
(d) Neither statement I nor II is sufficient
(e) Only statement II alone is sufficient

Q22-Q26. Seven persons Arjun, Divya, Nisha, Pooja, Ritu, Rohit, Sonia sit in a row facing north, not necessarily in the same order. Sonia sits at the extreme left end. Pooja sits at the extreme right end. Ritu sits exactly in the middle of the row. Arjun sits second from the left end. Divya sits to the immediate right of Arjun. Rohit sits second from the right end. Nisha sits between Ritu and Rohit.

Q22. Who sits third from the left end?
(a) Arjun
(b) Nisha
(c) Pooja
(d) Divya
(e) Rohit

Q23. How many persons sit to the right of Ritu?
(a) 3
(b) 5
(c) 2
(d) 1
(e) 4

Q24. Who sits immediate left of Ritu?
(a) Divya
(b) Ritu
(c) Pooja
(d) Sonia
(e) Arjun

Q25. Which of the following sits at the extreme right end of the row?
(a) Sonia
(b) Pooja
(c) Rohit
(d) Arjun
(e) Nisha

Q26. Who sits exactly between Ritu and Rohit?
(a) Ritu
(b) Divya
(c) Sonia
(d) Pooja
(e) Nisha

Q27. I. $x^2 - 10x - 24 = 0$ II. $y^2 - 10y - 24 = 0$. On solving both equations, find the relation between x and y.

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

Q28. Ashok walks 14 km towards North, then turns left and walks 11 km. He then turns left again and walks 14 km. In which direction is Ashok now with respect to his starting point?

(a) East
(b) West
(c) North
(d) South-East
(e) South

Q29. Kiran walks 15 km towards North, then turns right and walks 12 km. He then turns right again and walks 15 km. In which direction is Kiran now with respect to his starting point?

(a) North
(b) East
(c) South
(d) South-East
(e) West

Q30-Q34. Seven persons Neha, Nisha, Payal, Ritu, Simran, Sonia, Vikas live on seven different floors of a building, numbered 1 to 7 from bottom to top (floor 1 being the lowest), not necessarily in the same order. Neha lives on the lowest floor. Ritu lives on the topmost floor. Vikas lives exactly in the middle floor. Simran lives immediately above Neha. Sonia lives immediately above Simran. Nisha lives immediately below Ritu. Payal lives exactly between Vikas and Nisha.

Q30. Who lives on the 3rd floor?

(a) Payal
(b) Ritu
(c) Sonia
(d) Simran
(e) Nisha

Q31. How many persons live above the floor of Vikas?

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

Q32. Who lives immediately below Vikas?

(a) Vikas
(b) Neha
(c) Simran
(d) Sonia
(e) Nisha

Q33. Who lives on the topmost floor?

(a) Neha
(b) Ritu

(c) Sonia
(d) Simran
(e) Payal

Q34. Who lives exactly between the floors of Vikas and Nisha?
(a) Sonia
(b) Neha
(c) Payal
(d) Ritu
(e) Vikas

Q35. I. $x^2 - 7x + 12 = 0$ II. $y^2 - 5y + 0 = 0$. On solving both equations, find the relation between x and y.
(a) $x \leq y$
(b) $x \geq y$
(c) $x > y$
(d) $x < y$
(e) x = y or relationship cannot be established

Q36. In a class of 29 students, Ashok ranks 9th from the top. What is Ashok's rank from the bottom?
(a) 25
(b) 24
(c) None of these
(d) 21
(e) 19

Q37. Statements: All Doors are Chairs. All Chairs are Pens. No Pens is Cups.
Conclusions: I. All Doors are Pens. II. No Doors is Cups. III. Some Chairs are not Cups.
(a) All I, II and III follow
(b) None of the conclusions follow
(c) Only I and II follow
(d) Only II and III follow
(e) Only I and III follow

Q38. Two numbers are in the ratio 6:3 and their sum is 216. Find the larger number.
(a) 144
(b) 134.77
(c) None of these
(d) 158.79
(e) 138.86

Q39. What is the code for 'storm' in a certain code language?
I. 'storm is bright' is written as 'G A T'.
II. 'sky is bright' is written as 'J A T'.
(a) Only statement II alone is sufficient
(b) Neither statement I nor II is sufficient
(c) Only statement I alone is sufficient
(d) Both statements I and II together are necessary
(e) Either statement I or II alone is sufficient

Q40. In a class of 23 students, Payal ranks 11th from the top. What is Payal's rank from the bottom?
(a) 13

(b) 14
(c) 11
(d) 15
(e) None of these

Q41. Find the missing term: 19, 27, 43, 51, ?, 75
(a) 67
(b) 57
(c) 56
(d) 53
(e) None of these

Q42. 405 × 7 ÷ 30 + √144 − 115 ÷ 5 ≈ ? (find the approximate value)
(a) 83.50
(b) 100.43
(c) 100.90
(d) None of these
(e) 68.91

Q43. In a certain code language, 'Naveen works hard' is written as '8 3 6' and 'Divya works daily' is written as '5 3 7'. What is the code for 'works' in this language?
(a) 8
(b) 3
(c) 6
(d) 5
(e) 7

Q44. In a certain code language, 'Gaurav works hard' is written as '2 3 9' and 'Arjun works daily' is written as '6 3 5'. What is the code for 'works' in this language?
(a) 9
(b) 6
(c) 3
(d) 2
(e) 5

Q45. In a certain code language, 'Naveen works hard' is written as '2 4 9' and 'Priya works daily' is written as '5 4 3'. What is the code for 'works' in this language?
(a) 9
(b) 3
(c) 4
(d) 2
(e) 5

Q46. Statement: D > F = H = G
Conclusions: I. D = H II. F < G
(a) Either I or II follows
(b) Only conclusion II follows
(c) Neither I nor II follows
(d) Only conclusion I follows
(e) Both conclusions I and II follow

Q47. Find the missing term: 10, 15, 29, ?, 48, 53
(a) 28
(b) 34

(c) 32
(d) 37
(e) None of these

Q48. 355 × 7 ÷ 40 + √225 − 70 ÷ 5 ≈ ? (find the approximate value)
(a) 63.12
(b) 49.27
(c) None of these
(d) 73.43
(e) 75.02

Q49. Statement: A < E = G > C
Conclusions: I. A = G II. E > C
(a) Neither I nor II follows
(b) Only conclusion I follows
(c) Only conclusion II follows
(d) Both conclusions I and II follow
(e) Either I or II follows

Q50-Q54. Study the table below showing the number of employees (in hundreds) working in five companies A, B, C, D, E during the years 2016-2020 and answer the questions that follow.

Company A: 2016-480, 2017-810, 2018-400, 2019-640, 2020-780
Company B: 2016-510, 2017-490, 2018-850, 2019-760, 2020-260
Company C: 2016-260, 2017-460, 2018-780, 2019-490, 2020-310
Company D: 2016-540, 2017-220, 2018-260, 2019-890, 2020-200
Company E: 2016-370, 2017-570, 2018-730, 2019-440, 2020-750

Q50. What is the total number of employees (in hundreds) in Company B over all five years?
(a) 2606
(b) 2725
(c) 2692
(d) None of these
(e) 2870

Q51. What is the difference between the number of employees in Company B and Company E in 2020?
(a) 450
(b) 490
(c) 434
(d) 393
(e) None of these

Q52. Find the average number of employees (in hundreds) across all five companies in 2020.
(a) 419.37
(b) 388.93
(c) 411.81
(d) 460
(e) None of these

Q53. What is the percentage change in the number of employees of Company B from 2020 to 2016?

(a) 104.73
(b) 81.60
(c) None of these
(d) 107.96
(e) 96.15

Q54. What is the total number of employees (in hundreds) in Company A in 2020 and Company E in 2016 together?

(a) 1150
(b) 1048
(c) 1312
(d) None of these
(e) 1024

Q55. Statements: Some Windows are Bottles. No Bottles is Books. All Books are Chairs. Conclusions: I. No Windows is Books. II. Some Windows are not Books. III. Some Chairs are not Bottles.

(a) Only I and II follow
(b) Only II and III follow
(c) None of the conclusions follow
(d) All I, II and III follow
(e) Only I and III follow

Q56. I. $x^2 - 17x + 70 = 0$ II. $y^2 + 5y - 50 = 0$. On solving both equations, find the relation between x and y.

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

Q57. In a class of 21 students, Meena ranks 6th from the top. What is Meena's rank from the bottom?

(a) 14
(b) 16
(c) 13
(d) None of these
(e) 17

Q58. What is the code for 'storm' in a certain code language?
I. 'storm is bright' is written as 'F T Q'.
II. 'cloud is bright' is written as 'J T Q'.

(a) Both statements I and II together are necessary
(b) Only statement II alone is sufficient
(c) Either statement I or II alone is sufficient
(d) Only statement I alone is sufficient
(e) Neither statement I nor II is sufficient

Q59. A and B invest ₹28000 and ₹20000 respectively in a business for the same period. If the total profit at the end of the year is ₹24000, find A's share of the profit (in ₹).

(a) 14000
(b) 15791.51
(c) 12309.64
(d) 14691.26

(e) None of these

Q60. What is the area of a rectangle?
I. The length of the rectangle is 13 cm.
II. The perimeter of the rectangle is 44 cm.

(a) Both statements I and II together are necessary
(b) Only statement I alone is sufficient
(c) Either statement I or II alone is sufficient
(d) Neither statement I nor II is sufficient
(e) Only statement II alone is sufficient

Q61. Rohit walks 5 km towards North, then turns left and walks 7 km. He then turns left again and walks 5 km. In which direction is Rohit now with respect to his starting point?

(a) East
(b) West
(c) South
(d) South-East
(e) North

Q62. Find the missing term: 20, 25, 32, 41, ?, 65

(a) 52
(b) 43
(c) 47
(d) 45
(e) None of these

Q63. Who is the tallest among Arjun, Komal, Ashok, Vivek and Naveen?
I. Ashok is taller than Arjun and Vivek but shorter than Komal.
II. Naveen is the tallest of all five.

(a) Either statement I or II alone is sufficient
(b) Both statements I and II together are necessary
(c) Only statement I alone is sufficient
(d) Neither statement I nor II is sufficient
(e) Only statement II alone is sufficient

Q64-Q68. Six persons Kavita, Nisha, Priya, Rahul, Rohit, Tarun sit around a circular table facing the centre, not necessarily in the same order. Rahul sits second to the right of Nisha. Priya sits third to the left of Nisha. Tarun sits immediate right of Priya. Rohit sits between Rahul and Kavita.

Q64. Who sits second to the right of Nisha?

(a) Tarun
(b) Rohit
(c) Priya
(d) Kavita
(e) Rahul

Q65. Who sits immediate right of Priya?

(a) Priya
(b) Rohit
(c) Nisha
(d) Kavita
(e) Tarun

Q66. Who sits between Rahul and Kavita?

(a) Rahul
(b) Nisha
(c) Rohit
(d) Kavita
(e) Priya

Q67. Who sits third to the left of Nisha?
(a) Rohit
(b) Priya
(c) Tarun
(d) Rahul
(e) Kavita

Q68. How many persons are seated around the table?
(a) 8
(b) 6
(c) 7
(d) 4
(e) 5

Q69. I. $x^2 + 15x + 44 = 0$ II. $y^2 - 9y + 0 = 0$. On solving both equations, find the relation between x and y.
(a) x = y or relationship cannot be established
(b) x < y
(c) x ≤ y
(d) x ≥ y
(e) x > y

Q70. What is the area of a rectangle?
I. The length of the rectangle is 17 cm.
II. The perimeter of the rectangle is 50 cm.
(a) Either statement I or II alone is sufficient
(b) Neither statement I nor II is sufficient
(c) Both statements I and II together are necessary
(d) Only statement II alone is sufficient
(e) Only statement I alone is sufficient

Q71. (9^2) − (8^3) + 32 ÷ 5 = ?
(a) -424.60
(b) -376.18
(c) -469.73
(d) -402.61
(e) None of these

Q72. Two numbers are in the ratio 3:6 and their sum is 396. Find the larger number.
(a) 233.55
(b) 230.50
(c) None of these
(d) 286.84
(e) 264

Q73. Statement: A > E > F < C
Conclusions: I. A > F II. E < C
(a) Neither I nor II follows

(b) Either I or II follows
(c) Only conclusion II follows
(d) Only conclusion I follows
(e) Both conclusions I and II follow

Q74. (10^3) − (7^3) + 40 ÷ 5 = ?
(a) 689.12
(b) 665
(c) 703.22
(d) None of these
(e) 740.54

Q75. 235 × 8 ÷ 30 + √256 − 130 ÷ 2 ≈ ? (find the approximate value)
(a) 13.67
(b) 14.91
(c) 16.52
(d) 16.64
(e) None of these

Q76. Find the compound interest on ₹21000 at 20% per annum for 2 years, compounded annually.
(a) 8485
(b) 9240
(c) 10771.30
(d) 8290.74
(e) None of these

Q77. I. $x^2 - 8x + 15 = 0$ II. $y^2 + 4y - 5 = 0$. On solving both equations, find the relation between x and y.
(a) $x \geq y$
(b) $x < y$
(c) $x > y$
(d) x = y or relationship cannot be established
(e) $x \leq y$

Q78. 42 × (2/3) + (7/8) × 6 = ?
(a) 32.14
(b) None of these
(c) 33.25
(d) 36.53
(e) 29.09

Q79. Is the number x an even number?
I. x is completely divisible by 12.
II. x is completely divisible by 16.
(a) Neither statement I nor II is sufficient
(b) Only statement II alone is sufficient
(c) Only statement I alone is sufficient
(d) Either statement I or II alone is sufficient
(e) Both statements I and II together are necessary

Q80. Statements: All Windows are Pens. All Pens are Cups. No Cups is Doors.
Conclusions: I. All Windows are Cups. II. No Windows is Doors. III. Some Pens are not Doors.
(a) Only I and II follow

(b) Only I and III follow
(c) Only II and III follow
(d) None of the conclusions follow
(e) All I, II and III follow