

IBPS RRB PO 2020 Prelims Memory Based Paper PDF

Q1. I. $x^2 + 5x + 6 = 0$ II. $y^2 - 7y - 30 = 0$. On solving both equations, find the relation between x and y .

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

Q2-Q6. The pie chart below shows the percentage distribution of 5200 students enrolled across six streams A, B, C, D, E, F. Study it and answer the questions that follow.

A: 22%, B: 16%, C: 24%, D: 6%, E: 20%, F: 12%

Q2. How many students are enrolled in stream C?

- (a) 1248
- (b) 1400
- (c) 1208
- (d) None of these
- (e) 1335

Q3. What is the difference between the number of students in stream D and stream A?

- (a) 896
- (b) 678
- (c) None of these
- (d) 942
- (e) 832

Q4. What is the central angle (in degrees) representing stream A in the pie chart?

- (a) None of these
- (b) 79.20
- (c) 75.38
- (d) 71.84
- (e) 84.36

Q5. What is the ratio of the number of students in stream C to stream E?

- (a) None of these
- (b) 7:6
- (c) 6:7
- (d) 6:5
- (e) 7:4

Q6. How many students are NOT enrolled in stream B?

- (a) 4368
- (b) 4089
- (c) None of these
- (d) 3855
- (e) 4560

Q7. Who is the tallest among Payal, Suresh, Meena, Neha and Naveen?

I. Meena is taller than Payal and Neha but shorter than Suresh.

II. Naveen is the tallest of all five.

- (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) Neither statement I nor II is sufficient
- (e) Only statement I alone is sufficient

Q8. $40 \times (3/8) + (8/2) \times 12 = ?$

- (a) 58.91
- (b) 55.13
- (c) 66.48
- (d) None of these
- (e) 63

Q9. I. $x^2 - 9x + 18 = 0$ II. $y^2 + 17y + 66 = 0$. 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) $x < y$
- (e) $x \geq y$

Q10. In a certain code language, 'Deepak works hard' is written as '2 8 6' and 'Sanjay works daily' is written as '5 8 7'. What is the code for 'works' in this language?

- (a) 6
- (b) 5
- (c) 7
- (d) 8
- (e) 2

Q11. $130 \times 7 \div 20 + \sqrt{256} - 210 \div 2 \approx ?$ (find the approximate value)

- (a) -40.28
- (b) None of these
- (c) -50.56
- (d) -43.50
- (e) -48.29

Q12. Pointing to a photograph, Divya said, "Kavita is the son of my father's only son." How is Kavita related to Divya?

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

Q13. $135 \times 3 \div 60 + \sqrt{169} - 180 \div 5 \approx ?$ (find the approximate value)

- (a) None of these
- (b) -16.25
- (c) -18.41
- (d) -18.58
- (e) -17.46

Q14-Q18. 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-50, Feb-230, Mar-205, Apr-160, May-245, Jun-190

Product Q: Jan-230, Feb-75, Mar-80, Apr-120, May-200, Jun-70

Q14. What is the total number of units (in tens) of products P and Q sold together in Mar?

- (a) 285
- (b) 273
- (c) None of these
- (d) 305
- (e) 307

Q15. What is the difference in units sold between Product P and Product Q in Jan?

- (a) -129
- (b) -180
- (c) -203
- (d) -218
- (e) None of these

Q16. Find the average monthly sale (in tens) of Product P over the six months.

- (a) 195.56
- (b) 180
- (c) 196.39
- (d) 171.49
- (e) None of these

Q17. What is the total number of units (in tens) of Product Q sold over all six months?

- (a) 775
- (b) 821
- (c) None of these
- (d) 804
- (e) 831

Q18. What is the ratio of units sold of Product P to Product Q in Apr?

- (a) 5:1
- (b) 4:3
- (c) 1:2
- (d) 5:4
- (e) None of these

Q19-Q23. Seven persons Arjun, Deepak, Kavita, Meena, Naveen, Rohit, Simran sit in a row facing north, not necessarily in the same order. Simran sits at the extreme left end. Deepak sits at the extreme right end. Naveen sits exactly in the middle of the row. Rohit sits second from the left end. Meena sits to the immediate right of Rohit. Kavita sits second from the right end. Arjun sits between Naveen and Kavita.

Q19. Who sits third from the left end?

- (a) Meena
- (b) Simran
- (c) Arjun
- (d) Naveen
- (e) Kavita

Q20. How many persons sit to the right of Naveen?

- (a) 2
- (b) 4
- (c) 3

- (d) 1
- (e) 5

Q21. Who sits immediate left of Naveen?

- (a) Meena
- (b) Deepak
- (c) Rohit
- (d) Naveen
- (e) Arjun

Q22. Which of the following sits at the extreme right end of the row?

- (a) Simran
- (b) Deepak
- (c) Rohit
- (d) Meena
- (e) Arjun

Q23. Who sits exactly between Naveen and Kavita?

- (a) Naveen
- (b) Simran
- (c) Meena
- (d) Rohit
- (e) Arjun

Q24-Q28. Six persons Ashok, Isha, Komal, Pooja, Rajesh, Simran sit around a circular table facing the centre, not necessarily in the same order. Rajesh sits second to the right of Ashok. Simran sits third to the left of Ashok. Pooja sits immediate right of Simran. Komal sits between Rajesh and Isha.

Q24. Who sits second to the right of Ashok?

- (a) Pooja
- (b) Simran
- (c) Rajesh
- (d) Isha
- (e) Komal

Q25. Who sits immediate right of Simran?

- (a) Isha
- (b) Pooja
- (c) Rajesh
- (d) Komal
- (e) Ashok

Q26. Who sits between Rajesh and Isha?

- (a) Komal
- (b) Isha
- (c) Rajesh
- (d) Simran
- (e) Ashok

Q27. Who sits third to the left of Ashok?

- (a) Isha
- (b) Ashok
- (c) Komal
- (d) Rajesh

(e) Simran

Q28. How many persons are seated around the table?

- (a) 7
- (b) 4
- (c) 6
- (d) 8
- (e) 5

Q29. Divya said, "Ritu's mother is the only daughter of my mother." How is Divya related to Ritu?

- (a) Mother
- (b) Aunt
- (c) Sister
- (d) Grandmother
- (e) Daughter

Q30. Study the following sequence carefully and answer the question given below:

H 2 7 6 8 K F % H E Q N 7

How many times does a digit is immediately preceded by a letter and immediately followed by a symbol in the above sequence?

- (a) 0
- (b) 2
- (c) 4
- (d) 1
- (e) None of these

Q31. Statements: No Tables is Doors. Some Doors are Pens. All Pens are Bottles.

Conclusions: I. Some Pens are not Tables. II. Some Bottles are Doors. III. No Tables is Bottles.

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

Q32. Statements: All Tables are Bottles. All Bottles are Lamps. No Lamps is Pens.

Conclusions: I. All Tables are Lamps. II. No Tables is Pens. III. Some Bottles are not Pens.

- (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

Q33. What is the code for 'sky' in a certain code language?

I. 'sky is bright' is written as 'E L C'.

II. 'storm is bright' is written as 'B L C'.

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

Q34. Statement: $F < D < E < B$

Conclusions: I. $F > E$ II. $D = B$

- (a) Both conclusions I and II follow
- (b) Neither I nor II follows
- (c) Either I or II follows
- (d) Only conclusion I follows
- (e) Only conclusion II follows

Q35-Q39. Seven persons Aman, Isha, Kiran, Manoj, Naveen, Rajesh, Tarun 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. Isha lives on the lowest floor. Aman lives on the topmost floor. Manoj lives exactly in the middle floor. Kiran lives immediately above Isha. Rajesh lives immediately above Kiran. Tarun lives immediately below Aman. Naveen lives exactly between Manoj and Tarun.

Q35. Who lives on the 3rd floor?

- (a) Isha
- (b) Naveen
- (c) Rajesh
- (d) Manoj
- (e) Tarun

Q36. How many persons live above the floor of Manoj?

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

Q37. Who lives immediately below Manoj?

- (a) Naveen
- (b) Kiran
- (c) Isha
- (d) Rajesh
- (e) Manoj

Q38. Who lives on the topmost floor?

- (a) Manoj
- (b) Isha
- (c) Aman
- (d) Tarun
- (e) Naveen

Q39. Who lives exactly between the floors of Manoj and Tarun?

- (a) Naveen
- (b) Isha
- (c) Tarun
- (d) Rajesh
- (e) Manoj

Q40. What is the area of a rectangle?

- I. The length of the rectangle is 11 cm.
- II. The perimeter of the rectangle is 30 cm.
- (a) Neither statement I nor II is sufficient

- (b) Only statement I alone is sufficient
- (c) Only statement II alone is sufficient
- (d) Either statement I or II alone is sufficient
- (e) Both statements I and II together are necessary

Q41. Study the following sequence carefully and answer the question given below:

5 4 F 1 4 T L R 3 B 4 4 0

How many times does a digit is immediately preceded by a letter and immediately followed by a symbol in the above sequence?

- (a) None of these
- (b) 1
- (c) 4
- (d) 0
- (e) 2

Q42. Statement: $F = A < G < D$

Conclusions: I. $F = G$ II. $A > D$

- (a) Only conclusion II follows
- (b) Both conclusions I and II follow
- (c) Neither I nor II follows
- (d) Only conclusion I follows
- (e) Either I or II follows

Q43. What is the area of a rectangle?

I. The length of the rectangle is 10 cm.

II. The perimeter of the rectangle is 42 cm.

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

Q44. A shopkeeper bought an article for ₹1020 and sold it at a profit of 10%. Find the selling price.

- (a) 1206.36
- (b) None of these
- (c) 1158.78
- (d) 1217.46
- (e) 1122

Q45. Ashok walks 10 km towards North, then turns left and walks 6 km. He then turns left again and walks 10 km. In which direction is Ashok now with respect to his starting point?

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

Q46. In a class of 33 students, Komal ranks 19th from the top. What is Komal's rank from the bottom?

- (a) None of these
- (b) 14
- (c) 13
- (d) 15

(e) 17

Q47. What is the code for 'storm' in a certain code language?

I. 'storm is bright' is written as 'I W N'.

II. 'sky is bright' is written as 'T W N'.

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

Q48-Q52. 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: 2016-760, 2017-510, 2018-650, 2019-890, 2020-860

Company B: 2016-280, 2017-660, 2018-860, 2019-240, 2020-760

Company C: 2016-600, 2017-740, 2018-530, 2019-500, 2020-420

Company D: 2016-700, 2017-650, 2018-570, 2019-210, 2020-420

Company E: 2016-270, 2017-470, 2018-710, 2019-310, 2020-260

Q48. What is the total number of employees (in hundreds) in Company D over all five years?

- (a) None of these
- (b) 2317
- (c) 2715
- (d) 2550
- (e) 2462

Q49. What is the difference between the number of employees in Company D and Company E in 2020?

- (a) None of these
- (b) 175
- (c) 144
- (d) 139
- (e) 160

Q50. Find the average number of employees (in hundreds) across all five companies in 2020.

- (a) 475.83
- (b) 544
- (c) 627.50
- (d) 458.15
- (e) None of these

Q51. What is the percentage change in the number of employees of Company D from 2020 to 2017?

- (a) None of these
- (b) 40.18
- (c) 44.41
- (d) 54.76
- (e) 63.73

Q52. What is the total number of employees (in hundreds) in Company B in 2020 and Company E in 2017 together?

- (a) 1230
- (b) None of these
- (c) 1336
- (d) 1337
- (e) 1173

Q53. In a class of 40 students, Divya ranks 12th from the top. What is Divya's rank from the bottom?

- (a) 27
- (b) 26
- (c) None of these
- (d) 25
- (e) 29

Q54. $330 \times 6 \div 55 + \sqrt{196} - 215 \div 5 \approx ?$ (find the approximate value)

- (a) 7.61
- (b) None of these
- (c) 7
- (d) 7.87
- (e) 6.10

Q55. Statements: Some Tables are Cups. No Cups is Windows. All Windows are Mirrors.
Conclusions: I. No Tables is Windows. II. Some Tables are not Windows. III. Some Mirrors are not Cups.

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

Q56. Find the missing term: 10, 16, 30, 36, 50, ?

- (a) 67
- (b) 56
- (c) None of these
- (d) 59
- (e) 51

Q57. $475 \times 6 \div 60 + \sqrt{225} - 160 \div 5 \approx ?$ (find the approximate value)

- (a) 30.50
- (b) 32.15
- (c) 35.18
- (d) None of these
- (e) 24.39

Q58. What is the code for 'sky' in a certain code language?

I. 'sky is bright' is written as 'X N Q'.

II. 'moon is bright' is written as 'S N Q'.

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

Q59. Find the missing term: 15, 45, 135, ?, 1215, 3645

- (a) 405
- (b) 355
- (c) 342
- (d) None of these
- (e) 382

Q60. In a class of 24 students, Vikas ranks 10th from the top. What is Vikas's rank from the bottom?

- (a) 13
- (b) 12
- (c) None of these
- (d) 15
- (e) 18

Q61. $\sqrt{16 \times 44 - (12 \times 3) + 27} = ?$

- (a) 148.97
- (b) 185.41
- (c) 145.68
- (d) None of these
- (e) 167

Q62. Pipe A can fill a tank in 14 hours and Pipe B can fill the same tank in 10 hours. If both pipes are opened together, find the time taken to fill the tank (in hours).

- (a) 5.20
- (b) 6.13
- (c) 5.11
- (d) 5.83
- (e) None of these

Q63. Pointing to a photograph, Suresh said, "Nisha is the son of my father's only son." How is Nisha related to Suresh?

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

Q64. I. $x^2 + 5x + 4 = 0$ II. $y^2 - 8y - 9 = 0$. 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) $x \leq y$

Q65. In a certain code language, 'Ashok works hard' is written as '3 9 2' and 'Rohit works daily' is written as '1 9 8'. What is the code for 'works' in this language?

- (a) 9
- (b) 2
- (c) 3
- (d) 1
- (e) 8

Q66. I. $x^2 + 15x + 36 = 0$ II. $y^2 + 2y - 35 = 0$. On solving both equations, find the relation between x and y .

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

Q67. Find the missing term: 4, 11, 21, ?, 38, 45

- (a) None of these
- (b) 28
- (c) 31
- (d) 25
- (e) 32

Q68. Is the number x an even number?

I. x is completely divisible by 8.

II. x is completely divisible by 6.

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

Q69. What is the area of a rectangle?

I. The length of the rectangle is 16 cm.

II. The perimeter of the rectangle is 44 cm.

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

Q70. Meena walks 12 km towards North, then turns left and walks 13 km. He then turns left again and walks 12 km. In which direction is Meena now with respect to his starting point?

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

Q71. The speed of a boat in still water is 9 km/hr and the speed of the current is 3 km/hr. Find the time taken to cover 56 km downstream (in hours).

- (a) 4.49
- (b) 4.45
- (c) 4.67
- (d) None of these
- (e) 4.28

Q72. Study the following sequence carefully and answer the question given below:

* Y A @ 8 & Z & X W @ G 6

How many times does a digit is immediately preceded by a letter and immediately followed by a symbol in the above sequence?

- (a) None of these
- (b) 5
- (c) 1
- (d) 2
- (e) 0

Q73. $(12^4) - (3^3) + 40 \div 4 = ?$

- (a) None of these
- (b) 18866.58
- (c) 22104.41
- (d) 20719
- (e) 19219.83

Q74. A train covers 140 km at a speed of 60 km/hr. Find the time taken (in hours).

- (a) 2.63
- (b) 2.12
- (c) None of these
- (d) 2.57
- (e) 2.33

Q75. Find the missing term: 5, 9, 19, 23, 33, ?

- (a) 42
- (b) 40
- (c) 41
- (d) None of these
- (e) 37

Q76. $54 \times (7/6) + (5/8) \times 11 = ?$

- (a) None of these
- (b) 69.88
- (c) 72.33
- (d) 75.47
- (e) 77.28

Q77. In a certain code language, 'Arjun works hard' is written as '2 3 1' and 'Neha works daily' is written as '6 3 9'. What is the code for 'works' in this language?

- (a) 6
- (b) 9
- (c) 2
- (d) 3
- (e) 1

Q78. I. $x^2 - x - 12 = 0$ II. $y^2 - 9y + 20 = 0$. On solving both equations, find the relation between x and y.

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

Q79. Statement: $C < E < A = F$

Conclusions: I. $C > A$ II. $E > F$

- (a) Neither I nor II follows
- (b) Either I or II follows

- (c) Only conclusion I follows
- (d) Only conclusion II follows
- (e) Both conclusions I and II follow

Q80. Rahul walks 14 km towards North, then turns left and walks 12 km. He then turns left again and walks 14 km. In which direction is Rahul now with respect to his starting point?

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

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