

IBPS RRB Officer Scale-1 Prelims Exam

Memory Based Questions PDF
4th August 2019



QUANT

Direction (1–6) : Find out the missing number in the following number series.

1. 66, 75, 70, 79, ?, 83

- A. 74 B. 65
C. 81 D. 72
E. 75

2. 46, 50, 41, 57, 32, ?

- A. 68 B. 64
C. 58 D. 55
E. 62

3. 13, 20, 46, 109, 233, ?

- A. 448 B. 336
C. 298 D. 372
E. 464

4. 3.5, ?, 21, 84, 420, 2520

- A. 6 B. 7
C. 4.5 D. 9
E. 12

5. 4, 7, 12, 20, 32, ?

- A. 49 B. 45
C. 48 D. 42
E. 54

6. 7, 4.5, 5.5, 12, ?, 393

- A. 15 B. 63
C. 49 D. 83
E. 121

Directions (7 - 11): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give the answer.

Option-A-If $X > Y$
Option-B-If $X < Y$
Option-C-If $X \geq Y$
Option-D-If $X \leq Y$
Option-E If $X=Y$ or No relation can be established

7. I. $2x^2 - 19x + 45 = 0$

II. $2y^2 - 15y + 28 = 0$

8. I. $2x^2 - 13x + 21 = 0$

II. $y^2 - 12y + 35 = 0$

9. I. $x^2 - 9x + 20 = 0$

II. $2y^2 - 11y + 15 = 0$

10. I. $2x^2 + 13x + 18 = 0$

II. $2y^2 + 5y + 2 = 0$

11. I. $x^2 = 16$

II. $y^3 = 64$

12. I. $2x^2 - 11x + 12 = 0$

II. $y^2 - 7y + 12 = 0$

13. 6 years ago, the ratio between the age of B's mother and B's age was 7:3. 8 years hence, the ratio between their ages will be 7:4. Find the present age of B.

- A. 20 B. 34
C. 24 D. 32
E. None of these

14. Two trains having lengths 200m and 255m cross each other in 7 seconds when travelling in the opposite direction and in 91 seconds when travelling in the same direction. Find the speed of the slower train (in km/hr).

- A. 90 B. 108
C. 126 D. 102
E. 96

15. In a partnership A & B invest Rs. 8000 & Rs. 14000 Respectively. After 6 months, C replace B with the amount which is half of B. at the end of the year, the profit share of C is Rs. 2450. Find the total profit in the Partnership.

- A. Rs. 13560 B. Rs. 12950
C. Rs. 12480 D. Rs. 11575
E. None of these

16. A shopkeeper gives a discount of 40% on MRP and further he gives another discount of 25% on cash payment. Find the total equivalent Discount.

- A. 45% B. 65%
C. 55% D. 60%
E. 58%

Direction (17-22): Find out the missing number in the following number series.

17. 194, ?, 50, 26, 14, 8

- A. 92 B. 98
C. 115 D. 132
E. 88

18. 11, 6, 7, 12, 26, ?

- A. 55 B. 67.5
C. 62.5 D. 58
E. 72.5

19. 9.5, 12.5, 16, 20.5, 26.5, ?

- A. 32 B. 34.5
C. 28 D. 26
E. 36.5

20. 1500, 1157, 941, 816, ?, 725

- A. 750 B. 752
C. 751 D. 753
E. 749

21. 5, 6, 13, 40, 161, ?

- A. 806 B. 751
C. 656 D. 872
E. 786

22. 18, ?, 9, 18, 72, 576

- A. 15 B. 12
C. 9 D. 8
E. 6

Directions (23-28): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give the answer.

Option-A-If $X > Y$
Option-B-If $X < Y$
Option-C-If $X \geq Y$
Option-D-If $X \leq Y$
Option-E If $X=Y$ or No relation can be established

23. I. $(x-4)^2 = 0$ II. $Y^2 - 9 = 0$

24. I. $X^2 + 4x + 3 = 0$ II. $y^2 - y - 2 = 0$

25. I. $x^2 - 56 = 25$ II. $y^2 - 18y + 81 = 0$

26. I. $x^2 + 13x + 36 = 0$ II. $y^2 + 15y + 50 = 0$

27. I. $4x^2 + 5x + 1 = 0$ II. $5y^2 + 6y + 1 = 0$

28. I. $X^2 - 7x + 12 = 0$ II. $Y^2 - 11y + 30 = 0$

29. 4 years ago, the ratio of the age's of A & B was 5:4 and after 12 years, their average age will be 34 years. Find the age of A, 2 years ago.

- A. 24
B. 22
C. 25
D. 28
E. None of these

30. In a mixture of milk & water, water is 25%. A milkman sells 20 litres of the mixture and adds 15 litres milk as well as 15 litres water. Now the concentration of milk is 150% greater than water, then find the quantity of milk in the original mixture.

- A. 144 litres
B. 150 litres
C. 165 litres
D. 162 litres
E. None of these

31. 18 Women complete a work in 16 days. they started the work together & after x days, 6 women left the work. remaining work is completed by 12 women in 12 days. Find the value of x.

- A. 6
C. 9
E. None of these
- B. 7
D. 8

32. Circumference of a circle to the perimeter of a square is 11:6. Sum of the radius of the circle and one side of the square is 26 meter. Find the area of the square.

- A. 144
C. 150
E. None of these
- B. 164
D. 124

Direction (33-38): What approximate value will come in place of the question mark (?) in the following question? (You are not expected to calculate the exact value)

33. $(6.01)^2 + (3.01)^2 \times 14.01 = ? - 10.99$

- A. 173
C. 149
E. 153
- B. 180
D. 163

34. $7.01 \times 3.99 + 4.09 \times 5.12 + 12.01 = ?$

- A. 78
C. 67
E. 60
- B. 77
D. 64

35. $6.99/5.99 \times 17.99 + 33.01 = ?$

- A. 79
C. 69
E. 59
- B. 54
D. 74

36. $(11.01)^2 + 4.99 - (2.99)^2 = ? - (8.01)^2$

- A. 189
C. 181
E. 171
- B. 167
D. 163

37. $14.01 + (16.01)^2 - 220 = ?$

- A. 57
C. 50
E. 37
- B. 41
D. 32

38. $12.99 \times 5.99 + 6.99 \times (8.99)^2 = ?$

- A. 660
C. 610
E. 635
- B. 645
D. 605

Direction (39-44): What should come in place of the question mark '?' in the following number series?

39. 119, 139, 165, 200, 247, ?

- A. 313
C. 309
E. 319
- B. 323
D. 311

40. 96000, 96000, 48000, 16000, 4000, ?

- A. 800
C. 640
E. 840
- B. 720
D. 740

41. 16, 8, 8, 12, ?, 60

- A. 28
C. 32
E. 24
- B. 22
D. 30

42. 76, 77, 73, 82, 66, ?

- A. 89
C. 87
E. 97
- B. 91
D. 83

43. 73, 75, 72, 77, ?, 81

- A. 80
C. 78
E. 87
- B. 70
D. 74

44. 3, 5, 14, 55, ?, 1643

- A. 274
C. 282
E. 284
- B. 272
D. 278

Direction (45-48): Read the data carefully & answer the following

Coll.	Total no. of students (M+F)	No. of students with work exp. (M+F)
A	240	96
B	280	84
C	320	160
D	360	162

Note: Total no. of student = no. student with work exp. + no. of fresher students

45. What is difference b/w average number of students (M+F) who are fresher in college A & C and the average number of student (M+F) who have work experience in college B & D?

- A. 33 B. 27
C. 29 D. 24
E. 30

46. Ratio b/w number of students (M+F) who are fresher in college A and total number of student (M+F) who have work experience in B & C together?

- A. 36:61 B. 33:79
C. 33:57 D. 34:81
E. 34:79

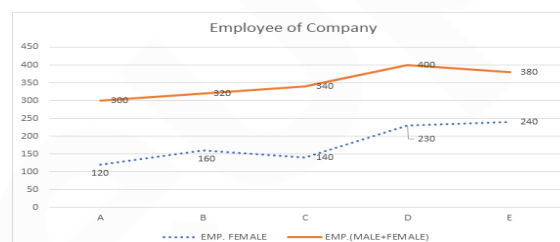
47. If number of male (fresher) in A is 70 & no. of male (work experience) in same college is 48. What total number of female (work experience + fresher) in college A?

- A. 124
B. 108
C. 112
D. 106
E. 122

48. If number of female fresher in D is 98 and number of female with work experience are 40% of number of male student who are fresher in same college, what is the total number of male who have work experience in D?

- A. 122 B. 124
C. 102 D. 116
E. 118

Direction (49-52): In line chart, total number of employee (male+female) & number of female employee are given. Read the data carefully & answer the following Questions.



49. If 10% of number of female employee from A and 20% of number of male emp. from same organization are selected for a project, what is sum of number of M & F who are not selected for project?

- A. 236 B. 252
C. 244 D. 230
E. 228

50. What is ratio b/w number of male employee. in C and total number of female in C & D together?

- A. 20:37 B. 21:39
C. 23:32 D. 19:27
E. 32:39

51. Total male in B & C together is what % more than number of female in A?

- A. 150%
B. 180%
C. 200%
D. 240%
E. 360%

52. If 30% of male in A & 40% of male in E are PG. Find the total number of PG male in A & E together.

- A. 110 B. 120
C. 125 D. 130
E. 115

53. Ratio of the present age of A & B is 4:5 and ratio of present age of A & C is 8:9. If difference between the age of A & C is 5 years. Find the sum of the ages of A, B, C after 11 years.

- A. 168 B. 192
C. 184 D. 144
E. 185

54. In a village A, Number of male is twice number of female. Ratio of the male in village A & village B is 1:3. If the number of female in village B is 78, and total population in both villages is 978. What is the number of female in village A?

- A. 100 B. 250
C. 150 D. 200
E. 260

55. The circumference of a circle is 4 times the side of a square. If the area of the circle is 154 cm^2 , find the area of the square (cm^2).

- A. 169 B. 144
C. 121 D. 81
E. 225

56. A shopkeeper gave 10% discount on the MP of a article thus earning a profit of Rs. 400. Had he sold the article at 20% discount, he would have earned 330 as profit. What was the MP of article?

- A. 600 B. 900
C. 700 D. 1100
E. 800

57. A tank has 3 inlets A, B, C. A & B together fill half of tank in same time that C alone takes to fill $\frac{1}{4}$ of tank. If 3 of them together can fill tank completely in 8 hrs. What time taken by C alone to fill empty tank?

- A. 24 B. 36
C. 48 D. 64
E. 42

58. A & B started a business with 5000 and 4000 resp. The time for which A & B invested was in ratio 4:3. If annual profit was Rs. 4800, B' share in profit?

- A. 2700 B. 7500
C. 2100 D. 1800
E. 2400

59. Asha invested a certain money offering S.I.@10% p.a. At end of 2 yrs., she received 36000. How much interest she would have earned on same money @ 20% p.a. comp. annually at end of 2 yrs.?

- A.12600 B.13200
C.14400 D.13560
E.None of these

60. A vessel contain 48 lit mix. of milk & water, in which milk is 3 times the water. 10 litre mixture is taken out and 20 litre pure water is added, then what is difference between the quantity of water & milk?

- A. 5
B. 7
C. 2
D. 4
E. 1

REASONING

1. How many such pairs of letters are there in the word **"IMPERATIVE"**, each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical series?

- A. Six B. Seven
C. More than eight D. Less than six
E. Eight

2. Change all the vowels of the word **"PRECIOUS"** to its next letters and all the consonants to its previous letters and then arrange them in alphabetical order. Which letter will be 4th from the right?

- A. J B. B
C. O D. P
E. Q

3. All the even value digits of the following number are increased by 1 and all the odd value digits are decreased by 1, then what will be the sum of the 4th number from the right and fifth number from left?

Number: 7 4 6 2 3 8 9 4 5

- A. 8 B. 10
C. 15 D. 11
E. 12

Directions (4-8): Study the information and answer the given questions:

10 people celebrate their birthday on 15th and 20th of 5 months- January, March, April, June and November. R celebrates birthday after Q. L celebrates his birthday on 15th of the month which has 31 days. Exactly 2 persons celebrate their birthdays between that of L and P.

Exactly 3 persons celebrate birthday between that of P and O. M celebrates birthday just before T but not in June or November. Also, both M and T celebrate a birthday in the same month. The number of persons celebrating a birthday before O is same as the number of persons celebrating birthday after N. Both U and S celebrate a birthday in the same month and U celebrates a birthday before S.

4. Who celebrates a birthday on Apr 15th?

- A. M B. L
C. P D. O
E. R

5. Who celebrates a birthday just after R?

- A. L B. T
C. N D. O
E. M

6. How many people celebrated their birthday before M?

- A. Q B. R
C. T D. O
E. P

7. How many people celebrated their birthday between Q and O?

- A. 4 B. 5
C. 6 D. 2
E. None

8. Who celebrated their birthday just before P?

- A. N B. Q
C. R D. O
E. None of these

Directions (9-13): Study the information and answer the given questions:

Total 8 persons A, B, C, D, E, F, G and H are sitting around a square table such that 4 of them are sitting at the corner and 4 of them are seating at the middle of the 4 sides. Person seating at corners are facing outside and the person seating at the sides are facing inside. E sits at one of the sides. Two persons sit between E and F. One person sits between F and B, where B is not an immediate neighbour of E. Two persons sit between B and C. A sits to the immediate left of H. A sits 3rd to the left of G. D sits second to the left of F.

9. Which of the following pairs is sitting opposite each other?

- A. CE B. DG
C. FA D. GA
E. None of these

10. Find the odd one.

- A. F B. H
C. A D. B
E. D

11. Who is sitting second to the left of E?

- A. C B. F
C. H D. A
E. G

12. Who is sitting between F and B?

- A. H B. E
C. G D. D
E. A

13. What is the position of B with respect to C when counted from the clockwise direction from C?

- A. Second to the left
B. Third to the left
C. Fifth to the left
D. Third to the right
E. Third to the right

Directions (14-18): Study the information & answer the given questions:

Nine people M, N, P, Q, R, S, T, V and W are seating equidistance in a row and all are facing north. Exactly 3 persons sit to the left of R. One person sit between M and R. P sits third to the right of the M. As many people sit to the right of P as to the left of S. Only 3 people sit between Q and S. T sits 4th to the left of the W. N is one of the persons, who sit to the right of V.

14. Number of persons sitting between N and M

- A. 1 B. 2
C. 3 D. 5
E. More than 5

15. Which of the following pair of persons are sitting at the extreme end?

- A. S and P B. P and N
C. Q and W D. W and S
E. T and Q

16. Who is sitting 2nd to the right of Q?

- A. M B. W
C. N D. P
E. T

17. Find the odd one out.

- A. QV B. NQ
C. SR D. TW
E. MP

18. Which of the following is true?

- A. 2 persons sit between Q and W
B. More than 2 persons are left of S
C. None of the option is true
D. T sits immediate right of R
E. N is the second person from the right extreme end.

19. Each vowel of the word GRAPHITE is changed to the next letter in the English alphabetical series and each consonant is changed to the previous letter in the English alphabetical series. If the new alphabets thus formed are arranged in alphabetical order (from left to right) which of the following letter will appear more than once?

- A. J B. B
C. O D. P
E. Q

Directions (20-22): Study the information & answer the given questions:

Eight people A, B, C, D, E, F, G and H are seating equidistance around a circle. Some of them are facing inside and some are facing outside. H is sitting immediate right of F. 3 persons are sitting between F and C. C is sitting third to the left of A. G is sitting immediate left of A. C and D both face centre. Immediate neighbors of G face different direction. B is sitting second to the left of E. Both immediate neighbors of E faces same direction as B. Both immediate neighbors of D face towards centre.

20. Find the odd one out.

- A. D B. C
C. A D. H
E. E

21. Who is sitting 3rd to the left of E?

- A. F B. G
C. D D. C
E. A

22. Which of the following is not true?

- A. A is sitting second to the left of B.
B. 3 persons sit between B and G
C. H is an immediate neighbour of D
D. A face outside.
E. All are true

Directions (23-26): In these questions, the relationship between different elements is shown in the statements. These statements are followed by two conclusions:

23. **Statements:** $A < N < D > R$; $E > D < W$

Conclusion:

- I. $W > A$
II. $A = W$
A. If either conclusion I or II follows.
B. If neither conclusion I nor II follows.
C. If only conclusion II follows.
D. If both conclusion I and II follow.
E. If only conclusion I follow.

24. **Statements:** $P < O < L < E = S > A$

Conclusion:

- I. $A < O$
II. $S > P$
A. If either conclusion I or II follows.
B. If neither conclusion I nor II follows.
C. If only conclusion II follows.
D. If both conclusion I and II follow.
E. If only conclusion I follow.

25. **Statements:** $M < O < B > I = L > E$

Conclusion:

- I. $B < E$
II. $L > M$
A. If both conclusion I and II follow.
B. If neither conclusion I nor II follows.

C. If either conclusion I or II follows.

D. If only conclusion II follows.

E. If only conclusion I follows.

26. **Statements:** $A < N < D > R$; $E > D < W$

Conclusion:

- I. $E > N$
II. $R < W$
A. If only conclusion I follows.
B. If either conclusion I or II follows.
C. If only conclusion II follows.
D. If both conclusion I and II follow.
E. If neither conclusion I nor II follows.

Directions (27-30): In each of the questions below is given three 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.

27. **Statements:** No dolphins is Latch

All trans are dolphins

No ship is a latch

Conclusions:

1. At least some dolphins are ships
2 No dolphin is a ship
A. Only 1 follows
B. Either 1 or 2 follows
C. Only 2 follows
D. Both 1 and 2 follow
E. Neither 1 nor 2 follows

28. **Statements:** All nodes are toys

Only a few statues are nodes

All statues are cases.

Conclusions:

- 1) All toys being statues is a possibility
2) Some nodes are definitely not cases
A. Neither 1 nor 2 follow
B. Either 1 or 2 follows
C. Both 1 and 2 follow
D. Only 1 follows
E. Only 2 follows

29. **Statements:** No dolphins is Latch
All trans are dolphins
No ship is a latch

Conclusions:

- 1) Some ships being trans is a possibility
 - 2) No latch is a trans.
- A. Either 1 or 2 follows
B. Neither 1 nor 2 follows
C. Only 1 follows
D. Both 1 and 2 follow
E. Only 2 follows

30. **Statements:** All nodes are toys
Only a few statues are modes
All statues are cases.

Conclusions

- 1) All nodes are cases
 - 2) No statue is a toy
- A. Only 1 follows
B. Either 1 or 2 follows
C. Neither 1 nor 2 follows
D. Both 1 and 2 follow
E. Only 2 follows



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