

IBPS RRB Clerk Prelims 2023 Memory Based Question Paper, 13th Aug, All Shifts Download PDF (In English)



Direction (1-5): Study the following data carefully and answer the questions accordingly.

Seven people live in a seven-story building. One person lives on one floor. The ground floor is numbered 1 and the top floor is numbered 7. Three people live between D and F, where D lives below F. Two people live between C and D. Four people live between B and D. E lives adjacent to B. F and D do not live adjacent to A. G does not live adjacent to B.

1. How many people live between G and E?

- A. Four
- B. None
- C. Two
- D. Three
- E. One

2. How many people live above C?

- A. One
- B. None
- C. Three
- D. Four
- E. Two

3. Who lives between D and A?

- A. F
- B. G
- C. B
- D. C
- E. None of these

4. E lives on the floor numbered as ____.

- A. 4
- B. 6
- C. 1
- D. 7
- E. None of these

5. Who lives on floor numbered as 2?

- A. G
- B. A
- C. F
- D. B
- E. None of these

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Direction (6-10): Study the following information carefully and answer the following questions.

Ten people are sitting in two parallel rows. A, B, C, D, E are sitting in row - 1 and facing south and P, Q, R, S, T are sitting in row - 2 and facing north such that the people sitting in row - 1 are sitting opposite to the people sitting in row - 2. All the information is not necessarily in the same order.

A sits third to the right of the one who faces R. P sits opposite to the one who sits adjacent to A. Two people sit between P and Q. E sits two places away from the one who faces Q. One person sits between B and E who does not face T. C does not sit adjacent to B.

6. How many people sit to the left of D?

- A. Three
- B. One
- C. None
- D. Two
- E. Four

7. Who sits opposite to T?

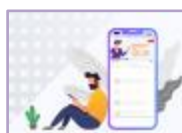
- A. E
- B. A
- C. D
- D. C
- E. None of these

8. What is the position of P with respect to T?

- A. Immediate right
- B. Second to the left
- C. Third to the right
- D. Immediate left
- E. None of these

9. Who sits second to the right of the one who sits opposite to Q?

- A. E
- B. C
- C. D
- D. A
- E. None of these



10. Four of the following five are alike in a certain way and hence form a group. Which amongst the following does not belong to that group?

- A. T
- B. A
- C. B
- D. S
- E. Q

Direction (11-14): In the following questions assuming the given statement to be true, find which of the conclusion(s) among given conclusions is/are definitely true, and then give your answers accordingly.

11. **Statement:**

$$A \geq J \geq K > L = F > G < H = S \leq D$$

Conclusion:

- I. $F > S$
- II. $L < A$
- A. Only I follows
- B. Only II follows
- C. Either I or II follows
- D. Both I and II follow
- E. Neither I nor II follows

12. **Statement:**

$$Z = S < X > C > D = F \leq V \leq B \geq G \geq H = N$$

Conclusion:

- I. $B > D$
- II. $N \leq B$
- A. Only I follows
- B. Only II follows
- C. Either I or II follows
- D. Both I and II follow
- E. Neither I nor II follows

13. **Statement:**

$$Y \geq H = G > T = R < F < D \leq E$$

Conclusion:

- I. $Y \geq E$
- II. $E = T$
- A. Only I follows



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- B. Only II follows
- C. Either I or II follows
- D. Both I and II follow
- E. Neither I nor II follows

14. Statement:

$P > L < O \leq I = K \leq J \geq U = Y \geq H > T$

Conclusion:

- I. $J > L$
- II. $T < U$
- A. Only I follows
- B. Only II follows
- C. Either I or II follows
- D. Both I and II follow
- E. Neither I nor II follows

Direction (15-18): In the question below are given three statements followed by the conclusions. 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.

15. Statements:

Only a few Friends are Relatives.
All Relatives are Family.
No Family is Parent.

Conclusions:

- I. Some Friends are not Relatives
- II. No Relatives are Parents
- A. Only I follows
- B. Only II follows
- C. Either I or II follows
- D. Neither I nor II follows
- E. Both I and II follow

16. Statements:

No Months are Years.
All Years are Days.
Only a few Days are Dates.

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Conclusions:

- I. Some Years are Dates
- II. No Years are Dates
- A. Only I follows
- B. Only II follows
- C. Either I or II follows
- D. Neither I nor II follows
- E. Both I and II follow

17. Statements:

Only a few Papers are Cards.
Only a few Cards are Greetings.
All Greetings are Pages.

Conclusions:

- I. Some Papers are not Cards
- II. Some Cards are Pages
- A. Only I follows
- B. Only II follows
- C. Either I or II follows
- D. Neither I nor II follows
- E. Both I and II follow

18. Statements:

All Androids are Windows.
No Windows are Linux.
Only a few Linux are Unix.

Conclusions:

- I. Some Unix are not Windows
- II. Some Androids can be Linux
- A. Only I follows
- B. Only II follows
- C. Either I or II follows
- D. Neither I nor II follows
- E. Both I and II follow



Direction (19-21): Study the following information carefully and answer the following questions.

Point C is 10m east of point A. Point N is 11m north of point M. Point D is 6m south of point C. Point M is 4m east of point D. Point P is 10m west of point N. Point S is to the south of point P and to the west of point D.

19. What is the direction of point S with respect to point C?

- A. South
- B. West
- C. Northeast
- D. Southwest
- E. None of these

20. What is the direction of Point N with respect to Point S?

- A. Northeast
- B. Southeast
- C. North
- D. West
- E. None of these

21. What is the distance between Point P and Point S?

- A. 10m
- B. 11m
- C. 8m
- D. 12m
- E. None of these

Direction (22-25): Study the following data carefully and answer the questions accordingly.

657 864 324 256 186

22. If the positions of the second and the third digit in each number are interchanged then, how many even numbers will be formed?

- A. One
- B. None
- C. Three
- D. More than three
- E. Two

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23. If all the digits in each number are arranged in ascending order within the number from left to right then, which of the following number will become the second lowest?

- A. 256
- B. 186
- C. 864
- D. 324
- E. None of these

24. If two is subtracted from the last digit of each number then, how many numbers thus formed will be divisible by three?

- A. One
- B. Two
- C. None
- D. Four
- E. Three

25. What is the difference between the third lowest number and the highest number?

- A. 150
- B. 540
- C. 350
- D. 660
- E. None of these

Direction (26-30): In the following number series, only one number is wrong. Find out the wrong number.

26. 16, 97, 197, 318, 462, 649

- A. 97
- B. 197
- C. 318
- D. 649
- E. 462

27. 53, 65, 79, 99, 125, 157

- A. 53
- B. 65
- C. 125
- D. 79
- E. 99

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28. 132, 173, 214, 253, 296, 337

- A. 173
- B. 337
- C. 296
- D. 214
- E. 253

29. 65, 73, 100, 164, 296, 505

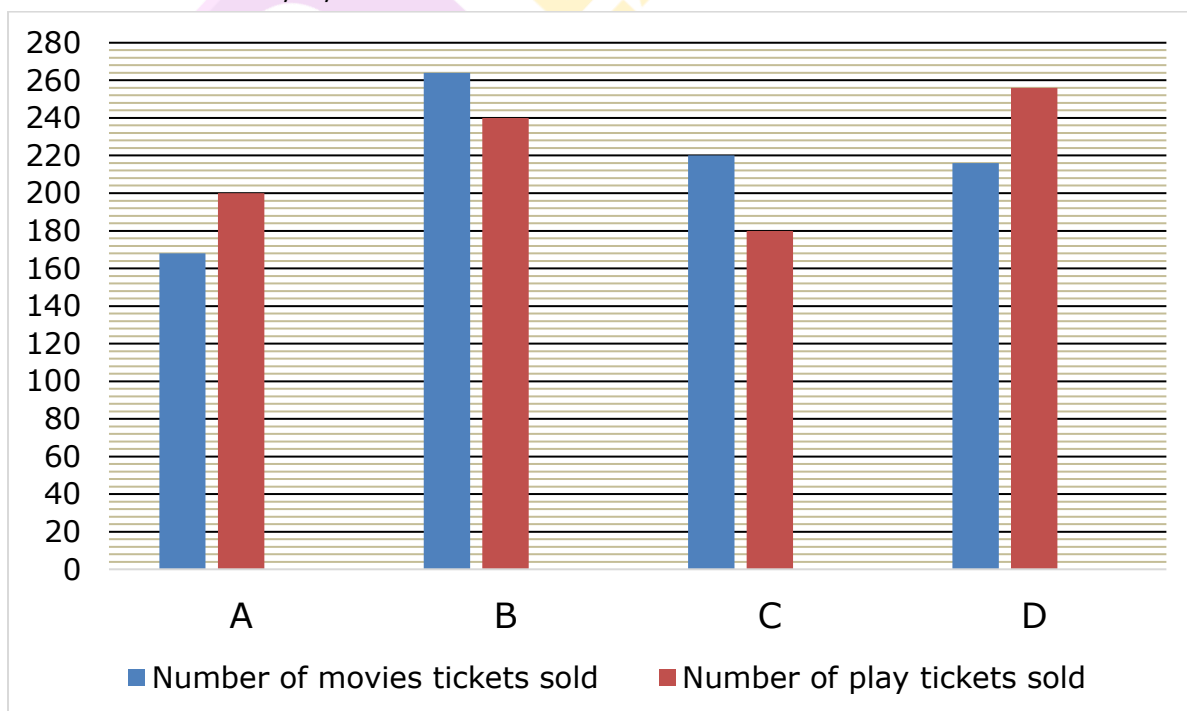
- A. 505
- B. 296
- C. 100
- D. 73
- E. 65

30. 249, 256, 267, 280, 297, 320

- A. 249
- B. 320
- C. 280
- D. 267
- E. 297

Direction (31-35): Study the following information carefully and answer the question:

The bar graph shown below shows the number of movie tickets and play tickets sold in four halls A, B, C and D.



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31. The number of movies tickets sold in hall A is what percent of the number of play tickets sold in hall B?

- A. 60%
- B. 75%
- C. 70%
- D. 55%
- E. None of these

32. What is the ratio between the number of movie tickets sold in hall D to the number of play tickets sold in hall C?

- A. 7 : 6
- B. 6 : 5
- C. 9 : 8
- D. 19 : 15
- E. 4 : 3

33. What is the difference between the number of play tickets sold in all four halls and the number of movies tickets sold in hall B, C and D?

- A. 163
- B. 201
- C. 192
- D. 183
- E. 176

34. If the price of a play ticket sold in hall A is Rs. 42 and the price of a movie ticket in the same hall is Rs. 50, what is the total price of all the movie and play tickets in hall A?

- A. Rs. 17500
- B. Rs. 14400
- C. Rs. 18900
- D. Rs. 16800
- E. None of these

35. Tickets are sold in either online or offline mode. If the ratio of movie tickets sold online and offline mode in hall B is 8 : 3, how many movie tickets in hall B are sold in offline mode?

- A. 63
- B. 72
- C. 78
- D. 92
- E. None of these

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Direction (36-40): Study the following information carefully and answer the question:

The table given below shows the number of males and females in four cities A, B, C and D.

City	Number of males	Number of females
A	880	720
B	1440	750
C	960	1120
D	1080	920

36. What is the ratio of number of males in city D to the number of females in city B?

- A. 36 : 25
- B. 23 : 15
- C. 8 : 5
- D. 9 : 7
- E. None of these

37. The number of females in city A is what percent of the number of males in city C?

- A. 66.66%
- B. 60%
- C. 80%
- D. 75%
- E. 90%

38. The total number of females in city A and D is how much more than the number of males in city B?

- A. 195
- B. 160
- C. 220
- D. 180
- E. 200

39. If the number of males in city E is 5% more than the number of females in city C and the ratio of number of females in city E to the number of males in city C is 7 : 8, what is the total population of city E?

- A. 1934
- B. 2016

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- C. 2109
- D. 2320
- E. None of these

40. What is the average number of males in cities B, C and D?

- A. 1160
- B. 1240
- C. 1150
- D. 990
- E. None of these

Direction (41-42): What should come in place of the question mark '?' in the following question?

41. $\sqrt{1296} \div 4 \times 19 - 108 = ?$

- A. 63
- B. 68
- C. 54
- D. 59
- E. 77

42. $432 \div ?^3 + 21^2 = 457$

- A. 8
- B. 3
- C. 1
- D. 4
- E. 6

43. The profit obtained by selling an article is Rs. 60. If the profit percentage on the article is 25% and the selling price is Rs. X, what is the value of $(1.5X - 150)$?

- A. Rs. 300
- B. Rs. 360
- C. Rs. 240
- D. Rs. 180
- E. None of these

44. In a mixture of milk and water the ratio of milk to water is 7 : 3. 10 litre of mixture is taken out and then 25 litre of water is added in the mixture. If the final ratio of milk to water is 3 : 2, find the initial quantity of water in the mixture.

- A. 36 litre
- B. 52 litre
- C. 45 litre
- D. 48 litre
- E. None of these

45. A sum is invested for 3 years at a rate of 10% per annum. If the simple interest obtained is Rs. 1320. If the same sum is invested at compound interest for same rate, what will be the interest received at the end of 2 years?

- A. Rs. 750
- B. Rs. 924
- C. Rs. 832
- D. Rs. 1020
- E. None of these

###ANSWERS###

1. Ans. A.

7	E
6	B
5	F
4	C
3	A
2	G
1	D

2. Ans. C.

7	E
6	B
5	F
4	C
3	A
2	G
1	D



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3. Ans. B.

7	E
6	B
5	F
4	C
3	A
2	G
1	D

4. Ans. D.

7	E
6	B
5	F
4	C
3	A
2	G
1	D

5. Ans. A.

7	E
6	B
5	F
4	C
3	A
2	G
1	D

6. Ans. B.

	A	C	E	D	B
Row 1					
Row 2					
	T	P	S	R	Q

7. Ans. B.

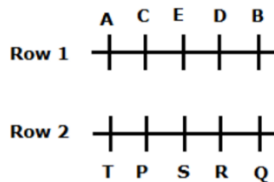
	A	C	E	D	B
Row 1					
Row 2					
	T	P	S	R	Q



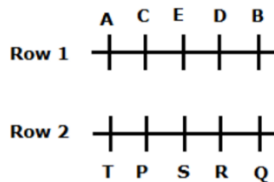
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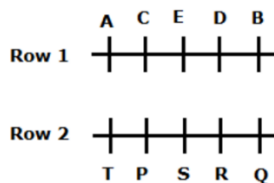
8. Ans. A.



9. Ans. A.



10. Ans. D.



11. Ans. B.

$$A \geq J \geq K > L = F > G < H = S \leq D$$

Conclusion:

I. $F > S \rightarrow$ Does not follow because $F > G < H = S$

II. $L < A \rightarrow$ Follows because $A \geq J \geq K > L$

12. Ans. B.

$$Z = S < X > C > D = F \leq V \leq B \geq G \geq H = N$$

Conclusion:

I. $B > D \rightarrow$ Does not follow because $D = F \leq V \leq B$

II. $N \leq B \rightarrow$ Follows because $B \geq G \geq H = N$

13. Ans. E.

$$Y \geq H = G > T = R < F < D \leq E$$

Conclusion:

I. $Y \geq E \rightarrow$ Not follows because $Y \geq H = G > T = R < F < D \leq E$

II. $E = T \rightarrow$ Not follows because $T = R < F < D \leq E$



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14. Ans. D.

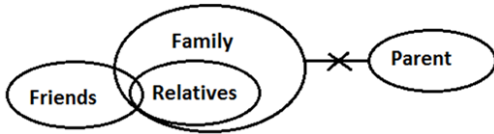
$$P > L < O \leq I = K \leq J \geq U = Y \geq H > T$$

Conclusion:

I. $J > L \rightarrow$ Follows as $L < O \leq I = K \leq J$

II. $T < U \rightarrow$ Follows as $U = Y \geq H > T$

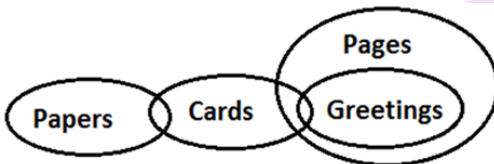
15. Ans. E.



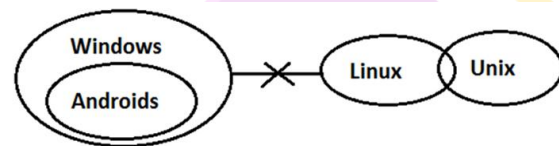
16. Ans. C.



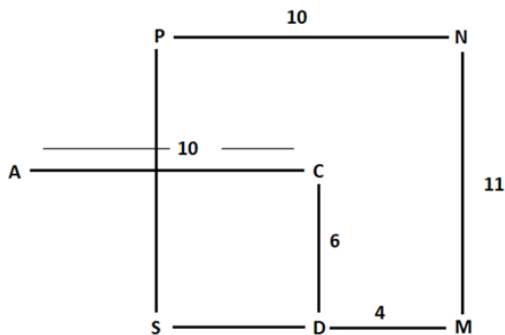
17. Ans. E.



18. Ans. A.



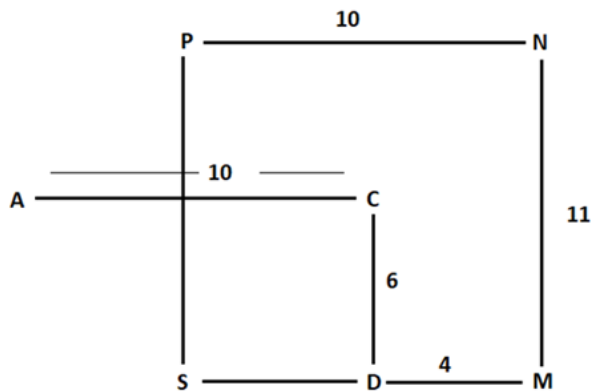
19. Ans. D.



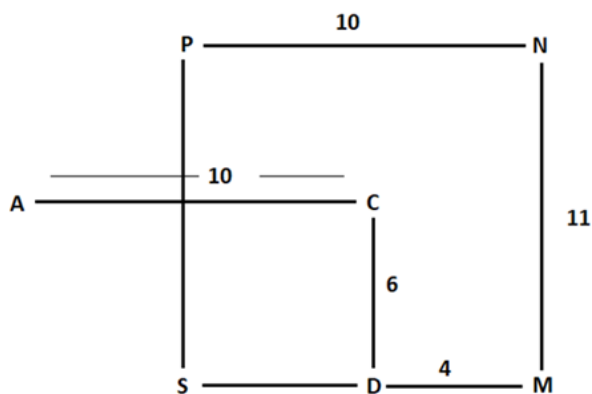
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20. Ans. A.



21. Ans. B.



22. Ans. C.

657 864 324 256 186

After interchange

675 846 342 265 168

Three even numbers formed.

23. Ans. D.

657 864 324 256 186

After arrangement

567 468 234 256 168

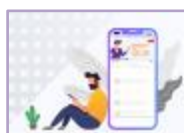
24. Ans. C.

657 864 324 256 186

After subtraction

655 862 322 254 184

None is divisible by 3.



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25. Ans. B.

657 864 324 256 186

$$864 - 324 = 540$$

26. Ans. D

The pattern of the series is:

$$16 + 9^2 = 97$$

$$97 + 10^2 = 197$$

$$197 + 11^2 = 318$$

$$318 + 12^2 = 462$$

$$462 + 13^2 = 631$$

Hence, the wrong number is 649.

27. Ans. A

The pattern of the series is:

$$57 + 8 = 65$$

$$65 + 14 = 79$$

$$79 + 20 = 99$$

$$99 + 26 = 125$$

$$125 + 32 = 157$$

The pattern for the differences is:

$$8 + 6 = 14$$

$$14 + 6 = 20$$

$$20 + 6 = 26$$

$$26 + 6 = 32$$

Hence, the wrong number is 53.

28. Ans. E

The pattern of the series is:

$$132 + 41 = 173$$

$$173 + 41 = 214$$

$$214 + 41 = 255$$

$$255 + 41 = 296$$

$$296 + 41 = 337$$

Hence, the wrong number is 253.

29. Ans. B

The pattern of the series is:

$$65 + 2^3 = 73$$



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$$73 + 3^3 = 100$$

$$100 + 4^3 = 164$$

$$164 + 5^3 = 289$$

$$289 + 6^3 = 505$$

Hence, the wrong number is 296.

30. Ans. B

The pattern of the series is:

$$249 + 7 = 256$$

$$256 + 11 = 267$$

$$267 + 13 = 280$$

$$280 + 17 = 297$$

$$297 + 19 = 316$$

Hence, the wrong number is 320.

31. Ans. C

$$\text{Required percentage} = \frac{168}{240} \times 100 = 70\%$$

32. Ans. B

$$\text{Required ratio} = 216 : 180 = 6 : 5$$

33. Ans. E

$$\text{Number of play tickets sold in all four halls} = 200 + 240 + 180 + 256 = 876$$

$$\text{Number of movies tickets sold in hall B, C and D} = 264 + 220 + 216 = 700$$

$$\text{Required difference} = 876 - 700 = 176$$

34. Ans. D

Total price of all the movie and play tickets in hall A

$$= 200 \times 42 + 168 \times 50$$

$$= 8400 + 8400$$

$$= \text{Rs. } 16800$$

35. Ans. B

$$\text{Number of movie tickets sold in offline mode in hall B} = \frac{3}{11} \times 264 = 72$$

36. Ans. A

$$\text{Required ratio} = 1080 : 750 = 36 : 25$$



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37. Ans. D

$$\text{Required percentage} = \frac{720}{960} \times 100 = 75\%$$

38. Ans. E

$$\begin{aligned}\text{Required answer} &= (720 + 920) - 1440 \\ &= 1640 - 1440 = 200\end{aligned}$$

39. Ans. B

$$\text{Number of males in city E} = 1120 + 5\% \text{ of } 1120 = 1120 + 56 = 1176$$

$$\text{Number of females in city E} = \frac{960}{8} \times 7 = 840$$

$$\text{Total population of city E} = 1176 + 840 = 2016$$

40. Ans. A

$$\begin{aligned}\text{Required average} &= \frac{1440+960+1080}{3} \\ &= \frac{3480}{3} = 1160\end{aligned}$$

41. Ans. A

$$\begin{aligned}?\ &= \sqrt{1296} \div 4 \times 19 - 108 \\ &= 36 \div 4 \times 19 - 108 \\ &= 9 \times 19 - 108 \\ &= 171 - 108 \\ &= 63\end{aligned}$$

42. Ans. B

$$\begin{aligned}432 \div ?^3 + 21^2 &= 457 \\ \Rightarrow 432 \div ?^3 + 441 &= 457 \\ \Rightarrow 432 \div ?^3 &= 457 - 441 = 16 \\ \Rightarrow ?^3 &= \frac{432}{16} = 27 = 3^3 \\ \Rightarrow ? &= 3\end{aligned}$$

43. Ans. A

$$25\% \text{ of cost price of article} = \text{Rs. } 60$$

$$\text{Cost price of article} = \frac{60}{0.25} = \text{Rs. } 240$$

$$\text{Selling price of article} = X = 240 + 60 = \text{Rs. } 300$$

$$1.5X - 150 = 1.5 \times 300 - 150$$

$$= 450 - 150 = \text{Rs. } 300$$



44. Ans. D

Let the quantity of milk and water be $7x$ and $3x$ respectively.

$$\frac{7x - 7}{3x - 3 + 25} = \frac{3}{2}$$

$$\Rightarrow 14x - 14 = 9x + 66$$

$$\Rightarrow 5x = 80$$

$$\Rightarrow x = 16$$

Initial quantity of water = $3 \times 16 = 48$ litre

45. Ans. B

Let the sum invested be Rs. P .

$$(3 \times 10)\% \text{ of } P = 1320$$

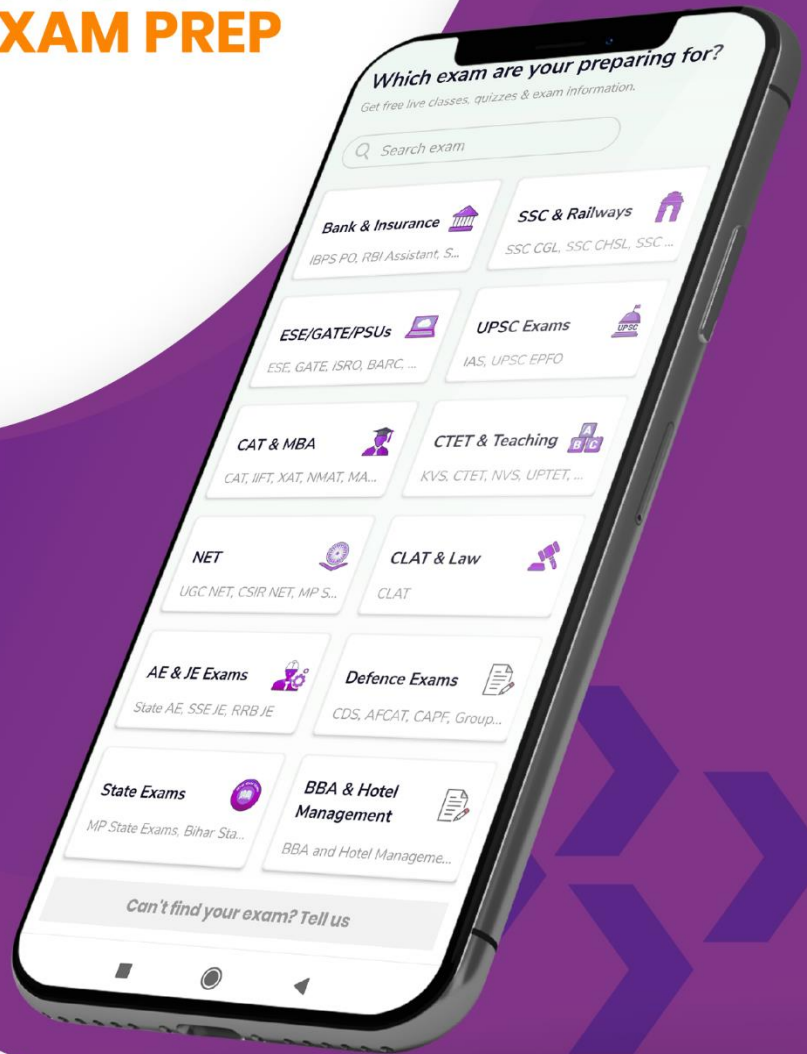
$$\Rightarrow P = \frac{1320}{0.3} = \text{Rs. } 4400$$

$$\text{CI for 2 years} = \left(10 + 10 + \frac{10 \times 10}{100}\right)\% = 21\%$$

$$\text{Required CI} = 21\% \text{ of } 4400 = 21 \times 44 = \text{Rs. } 924$$



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