

IBPS RRB Clerk Prelims 2020 Model Question Paper – Set 01

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IBPS RRB Clerk Model Paper

Reasoning Ability

Directions (1 – 5): In each of the questions below are given few statements followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read both the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

1. Statements:

All cans are stored.

Some stored are open.

Only a few bottles are open.

Conclusions:

I. Some stored can be bottles.

II. All open can be bottles.

a) If only conclusion I follows.

b) If only conclusion II follows.

c) If either conclusion I or II follows.

d) If neither conclusion I nor II follows.

e) If both conclusions I and II follow.

2. Statements:

Some format is cute.

Only a few cute is perfect.

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No stuff is perfect.

Conclusions:

I. Some stuff is format.

II. Some format is perfect.

a) If only conclusion I follows.

b) If only conclusion II follows.

c) If either conclusion I or II follows.

d) If neither conclusion I nor II follows.

e) If both conclusions I and II follow.

3. Statements:

Some format is cute.

Only a few cute is perfect.

No stuff is perfect.

Conclusions:

I. All cute being perfect is a possibility.

II. All cute can be stuff.

a) If only conclusion I follows.

b) If only conclusion II follows.

c) If either conclusion I or II follows.

d) If neither conclusion I nor II follows.

e) If both conclusions I and II follow.

4. Statements:

Only a few windows are pure.

No food is pure.

All music is window.

Conclusions:

I. Some windows are definitely not pure.

II. Some music is food.

a) If only conclusion I follows.

b) If only conclusion II follows.

c) If either conclusion I or II follows.

d) If neither conclusion I nor II follows.

e) If both conclusions I and II follow.

5. Statements:

Only a few windows are pure.

No food is pure.

All music is window.

Conclusions:

I. All pure can never be music.

II. Some windows are food.

a) If only conclusion I follows.

b) If only conclusion II follows.

c) If either conclusion I or II follows.

d) If neither conclusion I nor II follows.

e) If both conclusions I and II follow.

Directions (6 – 10): The following questions are based on the number arrangement given below:

2 3 6 2 1 8 4 4 5 9 1 2 8 7 4 8 0 2 4 3 7 9 2 7 3 9 4 5 7 1 6 4 2 6
9 8 1 0 4

Note: 0 is neither odd nor an even number.

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6. How many odd numbers are there in the sequence each of which is immediately followed by an even number?

- a) 4
- b) 6
- c) 3
- d) 7
- e) None of these

7. How many even numbers are there in the sequence each of which is immediately followed by an even numbers?

- a) 8
- b) 9
- c) 6
- d) 10
- e) None of these

8. How many odd numbers are there in the sequence which are immediately preceded by an even number and immediately followed by an odd number?

- a) 3
- b) 4
- c) 5
- d) 6
- e) None of these

9. How many such even numbers are there in the sequence which are immediately preceded and followed by an odd number?

- a) 2
- b) 4

c) 5

d) 3

e) None of these

10. How many such numbers are there in the sequence which are immediately followed by their multiples?

- a) 7
- b) 8
- c) 10
- d) 9
- e) None of these

11. If in the number 42367823475, all the digits at even numbered place are increased by 1 and the digits at odd numbered place are decreased by 1, then, which digit will be second to the left of the fifth digit from the right end.

- a) 6
- b) 4
- c) 8
- d) 7
- e) none of these

Directions (12 – 14): Answer the questions based on the information given below:

A family consists of 7 members P, Q, R, S, T, U and V. There are 2 married couples in the family and there is no single parent.

S is the son of P, who is married to Q. Q is the only daughter of R, who has 3 children. T is not a male member in the family.

12. How is R related to V?

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- a) Father
- b) Mother
- c) Aunt
- d) Brother
- e) None of these

13. How is T related to S?

- a) Aunt
- b) Sister
- c) Grandmother
- d) Can't be determined
- e) Mother

14. Find the odd one out.

- a) P
- b) U
- c) S
- d) V
- e) T

15. If a meaningful word starting with V can be formed from the letters A, E, S, V then the third letter of that word is your answer. If no such word can be formed, then your answer is 'M'.

- a) V
- b) E
- c) S
- d) A
- e) M

Direction (16 – 20): Answer the questions based on the information given below.

In a certain code of language,

“Seeing for the stars” is coded as “sa ma re ga”,

“Stars have the light” is coded as “ma pa ga da”,

“Seeing the light yourself” is coded as “sa ma da la”,

“They have to seeing stars” is coded as “ne fa ga pa sa”.

16. What is the code for “stars”?

- a) sa
- b) ga
- c) re
- d) ma
- e) Cannot be determined

17. What is the code for “light”?

- a) da
- b) la
- c) ne
- d) fa
- e) Cannot be determined

18. What is the code for “they”?

- a) ne
- b) pa
- c) fa

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- d) da
e) Cannot be determined

19. What is the code for “the”?

- a) da
b) ma
c) sa
d) la
e) Cannot be determined

20. What is the code for “yourself”?

- a) la
b) re
c) ga
d) ma
e) Cannot be determined

Directions (21 – 25): Study the following information and answer the given questions.

Six persons, A, B, C, D, E, and F have joined the company XYZ on different dates viz. 3rd and 12th of different months April and May. It is known that equal number of people have joined in each month.

Only C has joined on 3rd May. B has joined immediately after C with only F. A has joined more than one month before F. D has joined after E and both joined the company in the same month but on different dates.

21. A has joined on _____.

- a) 3rd April
b) 12th May
c) 3rd May

- d) 12th May
e) None of the above

22. How many people have joined the company before D?

- a) 2
b) 3
c) 1
d) 0
e) None of the above

23. How many people has/have joined the company before the day on which F has joined?

- a) 3
b) 2
c) 4
d) 1
e) None of the above

24. Who among the following has/have joined the company on 3rd April?

- a) A
b) B
c) D
d) E
e) Both (a) and (d)

25. How many people have joined the company after E?

- a) 2
b) 3
c) 1

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d) 0

e) None of the above

Directions (26 – 27): Answer the questions based on the information given below:

Point R is 4m north of point P. Point S is 9m north of point Q. Point U is 3m north of point S, which is 6m east of point R. Point Q is 5m west of point T.

26. What is the shortest distance between point U and point T?

a) 13m

b) 17m

c) 15m

d) 12m

e) None of these

27. What is the direction of point Q with respect to point R?

a) North east

b) South west

c) South east

d) East

e) None of these

Directions (28 – 30): Answer the following questions based on the information given below:

Six persons Avi, Appu, Anku, Abhi, Anup and Ammy have different heights. Anup is taller than only Ammy. Anku is taller than Abhi and Avi. Appu is taller than Avi but not the tallest.

28. Who among the following is the tallest?

a) Appu

b) Abhi

c) Anku

d) Anup

e) None of these

29. How many persons are taller than Abhi?

a) One

b) Two

c) Three

d) Cannot be determined

e) None of these

30. Who is the shortest person?

a) Appu

b) Abhi

c) Anku

d) Anup

e) Ammy

Directions (31 – 35): Study the following information carefully and answer the question given below.

There are seven boxes of different colours namely, Red, Pink, Black, Orange, White, Green and Grey, which are kept vertically one above other but not necessarily in the same order. The number of boxes kept below the white box is the same as the number of boxes kept above it. The pink box is not placed at the bottom of the stack. Two boxes are placed between black and white boxes. The grey box is placed above the white box but below orange box. Red and Green boxes are placed neither at the top nor at the bottom of the stack. The red box is placed immediately below the green box. Orange box is not placed at the top of the stack.

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31. How many boxes are placed between Orange and Red box?

- a) One
- b) Three
- c) Two
- d) Four
- e) Zero

32. Four of them are alike in a certain way; find the odd one among the following options?

- a) Black
- b) Pink
- c) White
- d) Green
- e) Grey

33. If the position of Grey and Black boxes is interchanged, than which box is placed immediately above Black box?

- a) Pink
- b) Red
- c) Orange
- d) White
- e) No one

34. Which coloured box is placed immediately below White box?

- a) Red
- b) Grey
- c) Pink

d) Green

e) None of the above

35. How many boxes are kept below the green box?

- a) Three
- b) One
- c) Two
- d) Four
- e) None

Directions (36 – 40): Study the following data carefully and answer the questions accordingly.

Nine people live in a nine-storey building but not necessarily in the same order. The ground floor is numbered 1 and the top floor is numbered 9. L does not live on an even-numbered floor. B does not live above R. Three people live between R and S. Two people live between C and J. J lives on an odd-numbered floor below the seventh floor. W lives above Q but not on the top floor. One person lives between E and R. S lives two floors below C. B lives below J.

36. How many people live above S?

- a) Five
- b) Three
- c) Four
- d) Two
- e) None of these

37. Who lives on the top floor?

- a) B
- b) Q
- c) L

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d) J

e) No one

38. Who lives on the fourth floor?

a) Q

b) E

c) R

d) C

e) None of these

39. Who lives between E and S?

a) W

b) C

c) R

d) J

e) None of these

40. Find the odd one.

a) B, E

b) J, R

c) Q, B

d) C, J

e) L, S

Quantitative Aptitude

Directions (41 – 46): In the given question, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer

41. I) $x^2 + 5x + 6 = 0$

II) $y^2 + 7y + 12 = 0$

a) $x > y$

b) $x \geq y$

c) $x < y$

d) $x \leq y$

e) $x = y$ or the relationship cannot be established

42. I) $x^2 = 784$

II) $y = \sqrt{784}$

a) if $x > y$

b) if $x \geq y$

c) if $x < y$

d) $x \leq y$

e) $x = y$ or the relationship cannot be established

43. I) $5x + 3y = 16$

II) $3x + 2y = 34$

a) $x > y$

b) $x \geq y$

c) $x < y$

d) $x \leq y$

e) $x = y$ or the relationship can not be established

44. I. $x^2 + 3x - 18 = 0$

II. $y^2 - 16 = 0$

a) $x > y$

b) $x < y$

c) $x \leq y$

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d) $x \geq y$

e) $x = y$ or relationship cannot be determined

45. I) $6x + 3y = 18$

II) $3x + 4y = 15$

a) if $x < y$

b) if $x > y$

c) if $x \leq y$

d) if $x \geq y$

e) $x = y$ or if the relationship cannot be established

46. I. $x^2 + 15x - 76 = 0$

II. $y^2 + 20y - 96 = 0$

a) $x < y$

b) $x > y$

c) $x = y$ OR the relationship cannot be determined

d) $x \geq y$

e) $x \leq y$

Directions (47 – 51): The following numbers form a series.
Find the odd one out.

47. 40, 50, 70, 110, 150, 350

a) 50

b) 150

c) 70

d) 110

e) 350

48. 1512, 1000, 657, 441, 324, 252

a) 252

b) 441

c) 657

d) 1000

e) 324

49. 1800, 300, 60, 15, 5, 2.5

a) 60

b) 15

c) 300

d) 2.5

e) None of these

50. 24, 26, 32, 44, 72, 94

a) 26

b) 72

c) 94

d) 32

e) 44

51. 132, 532, 732, 832, 882, 932

a) 832

b) 882

c) 932

d) 532

e) 732

Directions (52 – 56): Read the following table carefully and answer the questions given below.

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The following table shows the total number of books (Hindi and English) sold by Six different shopkeepers and the percentage of Hindi books sold by him.

Shopkeeper	Total number of Books	Percentage of Hindi books
A	800	40%
B	600	30%
C	400	60%
D	700	50%
E	1200	20%
F	500	40%

Directions (52 – 56): What value will come in place of question mark (?) in the following questions?

52. $14 \times 32 - 13 = ? \times 15$

- a) 32
- b) 27
- c) 36
- d) 29
- e) 33

53. $14^2 + 19^2 + 46^2 = ?$

- a) 2743
- b) 2773
- c) 2593
- d) 2723
- e) 2673

54. $46 \times 31 + 12 \times 23 = ?$

- a) 1729
- b) 1673
- c) 1701

d) 1702

e) 1724

55. $80\% \text{ of } 595 + 30\% \text{ of } 740 = ?$

- a) 698
- b) 708
- c) 618
- d) 628
- e) 718

56. $(?)^2 + 9^3 = 39^2 - 8$

- a) 24
- b) 28
- c) 32
- d) 40
- e) 48

57. The price of wheat is reduced by 4%. How many more or less kg of wheat can now be bought for the money which was sufficient to buy 48 kg wheat earlier?

- a) 1 kg less
- b) 1 kg more
- c) 2 kg more
- d) 2 kg less
- e) None of these

58. At 12% discount the selling price of a washing machine is Rs 44000, what is the selling price if the discount is 36%?

- a) Rs. 16000
- b) Rs. 32000

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c) Rs. 28750

d) Rs. 33600

e) Rs. 11200

59. Rohan rows in still water at a speed of 8 kmph and at a speed of 3.5 kmph upstream (against the direction of water). Calculate his speed in the direction of water (downstream speed)?

a) 11.5 kmph

b) 15.7 kmph

c) 12.5 kmph

d) 13.5 kmph

e) 14 kmph

60. If a train having length of 30 m crosses a pole of height 10 m with a speed of 1.5 m/s. Calculate the time in which it crosses the pole.

a) 12 sec

b) 10 sec

c) 20 sec

d) 15 sec

e) 25 sec

61. 4 girls can do a piece of work in 8 days, same work 3 boys can do in 9 days, 7 men in 2 days and 5 women in 4 days. Who among them have the minimum capacity of work?

a) Boy

b) Girl

c) Man

d) Woman

e) Both boy and man

62. A shopkeeper mixes liquid P worth Rs.88/liter and liquid Q worth Rs.70/liter. If the cost of mixture is Rs.80, then quantity of liquid P is approximately what percent of the quantity of liquid Q in the mixture?

a) 120%

b) 105%

c) 130%

d) 125%

e) 110%

63. Average runs scored by a batsman in 11 innings is 36 and average runs scored by him in next four innings is 75. What is the average runs scored by him in 15 innings?

a) 46.4

b) 48.2

c) 44.6

d) 42

e) 40.8

64. Shudha borrowed a sum of Rs. 25000 at 16% per annum compounded annually for two years, then what is the total interest paid by Shudha at the end of two years?

a) Rs. 8590

b) Rs. 8430

c) Rs. 8870

d) Rs. 8640

e) None of these

65. The ratio of present age of Manisha and Jitendra is 6: 7 and ratio of age of Jitendra and Megha after 1 years is 8: 5.

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If Manisha is 15 years older than Megha, then what is the present age of Jitendra?

- a) 76 years
- b) 63 years
- c) 72 years
- d) 66 years
- e) 69 years

66. A started a business with Rs.4500 and another person B joined after some period with Rs.3000. Determine this period after B joined the business if the profit at the end of the year is divided in the ratio 2 : 1

- a) After 3 months
- b) After 4 months
- c) After 6 months
- d) After 2 1/2 months
- e) None of these

67. Father's present age is 50 yrs. His age was equal to his son's present age at the time of the son's birth. What was son's age 10 yrs. ago?

- a) 12
- b) 15
- c) 20
- d) 25
- e) None of these

68. In an examination, a student scores 6 marks for every correct answer and loses 4 marks for every wrong answer. If he attempted 80 questions and obtained 310 marks, how many questions did he attempt correctly?

- a) 59
- b) 67
- c) 63
- d) 65
- e) 61

Directions (69 – 75): What value will come in place of question mark (?) in the following questions?

69. $\sqrt{576} + \sqrt{841} - \sqrt{361} = ?$

- a) 54
- b) 59
- c) 9
- d) 14
- e) 34

70. $(?)^2 + 33 = 29^2 - 22^2$

- a) -12
- b) -117
- c) -132
- d) 3
- e) 18

71. $40\% \text{ of } 160 + 20\% \text{ of } 70 + 88.88\% \text{ of } 18 = ?$

- a) 88
- b) 94
- c) 115
- d) 109
- e) 99

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72. $(0.2)^{114} \div 0.04^{52} = (0.2)^?$

- a) 7
- b) 13
- c) 19
- d) 10
- e) 4

73. $160 \times 11 = ? - 280 \times 3$

- a) 2650
- b) 2580
- c) 2670
- d) 2600
- e) 2540

74. $45\% \text{ of } 180 - 20 = ? - 109$

- a) 170
- b) 120
- c) 180
- d) 150
- e) None of these

75. $(\frac{3}{4}) \times 280 + 290 = ? + (\frac{5}{8}) \times 640$

- a) 60
- b) 40
- c) 50
- d) 80
- e) 100

Direction (76 – 80): Following questions have two quantities as Quantity I and Quantity II. You have to determine the relationship between them and give answer as,

76. Quantity I: What is the perimeter of the rectangle whose area is 216 cm^2 and the ratio of length to breadth is 3: 2?

Quantity II: 63 cm

- a) Quantity I > Quantity II
- b) Quantity I \geq Quantity II
- c) Quantity I = Quantity II
- d) Quantity I < Quantity II
- e) Quantity I \leq Quantity II

77. Quantity I: Compound interest on Rs.1800 at 10% per annum for 2 years?

Quantity II: What is the difference between the simple and compound interest on Rs.37800 at 10% per annum for two years?

- a) Quantity I > Quantity II
- b) Quantity I \geq Quantity II
- c) Quantity I = Quantity II
- d) Quantity I < Quantity II
- e) Quantity I \leq Quantity II

78. Quantity I: 18 seconds

Quantity II: Time taken by 180 m train crosses a man at the speed of 20 kmph.

- a) Quantity I > Quantity II
- b) Quantity I \geq Quantity II

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c) Quantity I = Quantity II

d) Quantity I < Quantity II

e) Quantity I ≤ Quantity II

79. Quantity I: Ratio of the present age of A and B is 4: 5 and after 8 years the ratio becomes 5: 6. What is the difference between the ages of A and B after 15 years?

Quantity II: 6 years

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity I = Quantity II

d) Quantity I < Quantity II

e) Quantity I ≤ Quantity II

80. Quantity I: A and B can complete a work in 10 days and 18 days respectively. If C's efficiency is 50% more than B, in how many days A, B and C together can complete the work?

Quantity II: 5 days

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity I = Quantity II

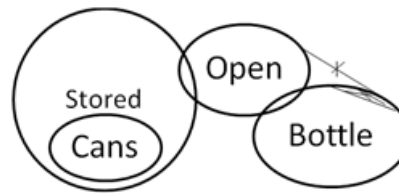
d) Quantity I < Quantity II

e) Quantity I ≤ Quantity II

Answers with Explanation:

Reasoning Ability

1. Answer: E)

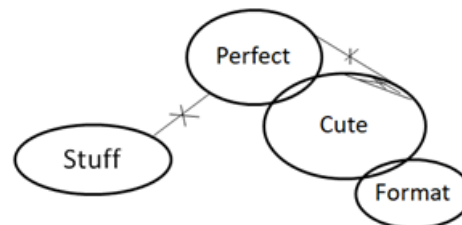


Some stored can be bottles =====> follows

All open can be bottles =====> follows

Therefore, option E is the correct answer.

2. Answer: D)

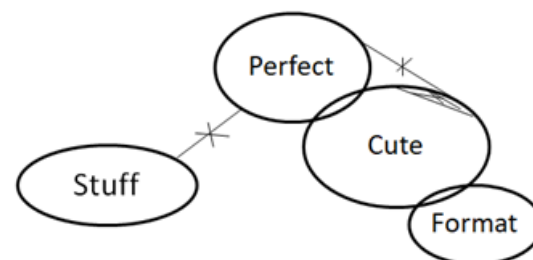


Some stuff is format =====> not follows

Some format is perfect =====>not follows

Therefore, option D is the correct answer.

3. Answer: D)



All cute is perfect is a possibility =====> not follows

All cute can be stuff =====> not follows

Therefore, option D is the correct answer.

4. Answer: A)

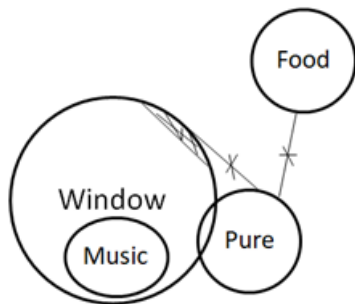
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Some windows are definitely not pure =====> follows

Some music is food=====> not follows

Therefore, option A is the correct answer.

5. Answer: D)



All pure can never be music =====> not follows

Some windows are food =====> not follows

Therefore, option D is the correct answer

6. Answer: E)

2 3 6 2 1 8 4 4 5 9 1 2 8 7 4 8 0 2 4 3 7 9 2 7 3 9 4 5 7 1 6 4 2 6
9 8 1 0 4

So, there are such 8 numbers.

7. Answer: B)

2 3 6 2 1 8 4 4 5 9 1 2 8 7 4 8 0 2 4 3 7 9 2 7 3 9 4 5 7 1 6 4 2 6
9 8 1 0 4

So, there are such 9 numbers.

8. Answer: B)

2 3 6 2 1 8 4 4 5 9 1 2 8 7 4 8 0 2 4 3 7 9 2 7 3 9 4 5 7 1 6 4 2 6
9 8 1 0 4

So, there are such 4 numbers.

9. Answer: D)

2 3 6 2 1 8 4 4 5 9 1 2 8 7 4 8 0 2 4 3 7 9 2 7 3 9 4 5 7 1 6 4 2 6
9 8 1 0 4

So, there are such 3 numbers.

10. Answer: C)

2 3 6 2 1 8 4 4 5 9 1 2 8 7 4 8 0 2 4 3 7 9 2 7 3 9 4 5 7 1 6 4 2 6
9 8 1 0 4

So, there are such 10 numbers.

11. Answer: A)

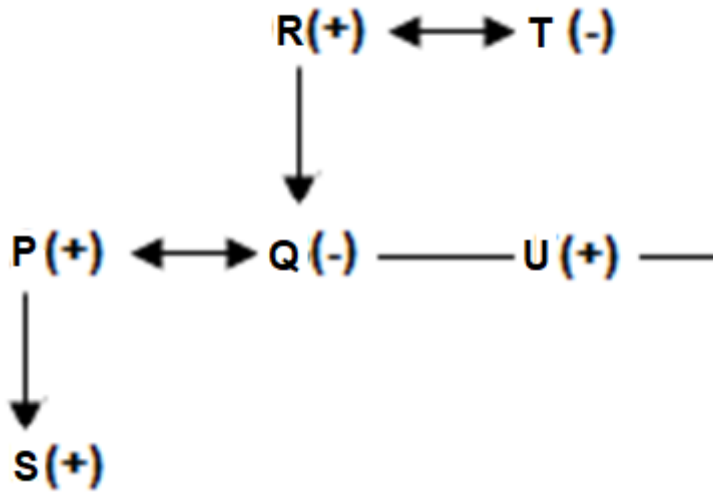
The number given is : 42367823475

After the operation: 33276914384

So the digit second to the left of the fifth digit from the right end = 6

(12 – 14): Common Explanation:

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12. Answer: A)

13. Answer: C)

14. Answer: E)

15. Answer: C)

Meaningful word that can be formed starting with V is: Vase.

The third letter of the meaningful word that comes is 'S'.

Thus, 'S' is the answer.

(16 – 20): Common Explanation:

Words	seeing	for	the	stars	have	light	yourself	the	to
Codes	sa	re	ma	ga	Pa	da	la	ne/fa	fa/ne

16. Answer: B)

17. Answer: A)

18. Answer: E)

19. Answer: B)

20. Answer: A)

(21 – 25): Common Explanation:

Only C has joined on 3rd May.

B has joined immediately after C with only F.

People	Dates
A	
B	12 th May
C	3 rd May
D	
E	
F	12 th May

A has joined more than one month before F.

People	Dates
A	3 rd April
B	12 th May
C	3 rd May
D	
E	
F	12 th May

D has joined after E, both joined the company in the same month but on different dates.

People	Dates
A	3 rd April
B	12 th May
C	3 rd May
D	12 th April
E	3 rd April
F	12 th May

Therefore, this is the final arrangement.

21. Answer: A)

22. Answer: A)

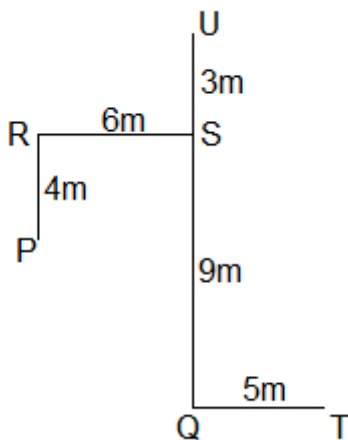
23. Answer: C)

24. Answer: E)

25. Answer: E)

(26 – 27): Common Explanation:

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26. Answer: A)

The shortest distance between point U and point T

$$= \sqrt{[(12)^2 + (5)^2]}m$$

$$= \sqrt{169}m$$

$$= 13m$$

27. Answer: C)

Point Q is to the south east of point R.

(28 – 30): Common Explanation:

Now, Anup is taller than only Ammy. Anku is taller than Abhi and Avi. Appu is taller than Avi but not the tallest. So, there are two cases

(i) Anku > Appu > Abhi > Avi > Anup > Ammy

(ii) Anku > Abhi > Appu > Avi > Anup > Ammy

28. Answer: C)

Anku is the tallest.

29. Answer: D)

Any number of persons among one, two and three are taller than Abhi.

30. Answer: E)

Ammy is the shortest.

(31 – 35): Common Explanation:

Colours: Red, Pink, Black, Orange, White, Green and Grey,

1) The number of boxes kept below the white box is the same as the number of boxes kept above it.

2) Two boxes are placed between black and white boxes.

3) The grey box is placed above the white box but placed below the orange box.

4) The orange box is not placed at the top of the stack.

Boxes	Case 1	Case 2
7		Black
6	Orange	Orange
5	Grey	Grey
4	White	White
3		
2		
1	Black	

5) Red and Green boxes are neither placed at the top nor placed at the bottom of the stack.

6) The red box is placed immediately below the green box.

Boxes	Case 1	Case 2
7	Pink	Black
6	Orange	Orange
5	Grey	Grey
4	White	White
3	Green	Green
2	Red	Red
1	Black	Pink

7) The pink box is not placed at the bottom of the stack. (From this statement case 2 is eliminated)

The final arrangement will be,

Boxes	Case 1
-------	--------

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7	Pink
6	Orange
5	Grey
4	White
3	Green
2	Red
1	Black

31. Answer: B)

32. Answer: C)

33. Answer: C)

34. Answer: D)

35. Answer: C)

(36 – 40): Common Explanation:

1) J lives on an odd-numbered floor below the seventh floor.

2) B lives below J.

Case 1

9	
8	
7	
6	
5	J
4	
3	
2	
1	

Case 2

9	
8	
7	
6	
5	
4	
3	J
2	
1	

3) Two people live between C and J.

4) S lives two floors below C.

5) Three people live between R and S.

6) One person lives between E and R.

(Here, case 2 will be eliminated and we will continue with the case 1)

Case 1

9	
8	C
7	
6	S
5	J
4	E
3	
2	R
1	

Case 2

9	
8	R
7	
6	C
5	
4	S
3	J
2	
1	

7) B does not live above R.

8) W lives above Q but not on the top floor.

9) L does not live on an even-numbered floor.

9	L
8	C
7	W
6	S
5	J
4	E
3	Q
2	R
1	B

36. Answer: B)

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37. Answer: C)

38. Answer: B)

39. Answer: D)

40. Answer: C)

Quantitative Aptitude

41. Answer: B)

Solving equation I

$$x + 5x + 6 = 0$$

$$x + 2x + 3x + 6 = 0$$

$$\Rightarrow x(x + 2) + 3(x + 2) = 0$$

$$\Rightarrow (x + 3)(x + 2) = 0$$

$$\Rightarrow x = -3 \text{ or } -2$$

Solving equation II

$$y + 7y + 12 = 0$$

$$y + 4y + 3y + 12 = 0$$

$$\Rightarrow y(y + 4) + 3(y + 4) = 0$$

$$\Rightarrow (y + 3)(y + 4) = 0$$

$$\Rightarrow y = -3 \text{ or } -4$$

$$\therefore x \geq y$$

42. Answer: D)

As per the given data,

From I)

$$\Rightarrow x^2 = 784$$

$$\Rightarrow x = \pm 28$$

From II)

$$\Rightarrow y = \sqrt{784} = 28$$

\therefore From the above, we can say $x \leq y$

43. Answer: C)

As per the given data,

From I)

$$\Rightarrow 5x + 3y = 16$$

Multiply 3 on both sides, we get

$$\Rightarrow 15x + 9y = 48 \text{equation (1)}$$

From II)

$$\Rightarrow 3x + 2y = 34$$

Multiply 5 on both sides, we get

$$\Rightarrow 15x + 10y = 170 \text{ ...equation (2)}$$

Subtract equation (1) from equation (2), we get

$$\Rightarrow -y = -122$$

$$\Rightarrow y = 122$$

Substitute $y = 122$ in equation (1)

$$\Rightarrow 15x + 9 \times (122) = 48$$

$$\Rightarrow 15x = 48 - 1098$$

$$\Rightarrow x = -1050/15 = -70$$

$$\therefore x < y$$

44. Answer: E)

As per the given data,

By solving $x^2 + 3x - 18 = 0$, we get

$$\Rightarrow x^2 + 3x - 18 = 0$$

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$$\Rightarrow x^2 + 6x - 3x - 18 = 0$$

$$\Rightarrow x(x + 6) - 3(x + 6) = 0$$

$$\Rightarrow (x - 3)(x + 6) = 0$$

$$\Rightarrow x = 3 \text{ and } x = -6$$

Also by solving $y^2 - 16 = 0$

$$\Rightarrow y^2 - 4^2 = 0$$

$$\Rightarrow y = \pm 4$$

When $x = 3$ and $y = 4$, then $x < y$

When $x = 3$ and $y = -4$, then $x > y$

When $x = -6$ and $y = 4$, then $x < y$

When $x = -6$ and $y = -4$, then $x < y$

\therefore Relationship cannot be determined

45. Answer: A)

From the given data,

$$\Rightarrow 6x + 3y = 18 \text{ ---- equation (1)}$$

Also given that $3x + 4y = 15$

Multiply 2 on both sides, we get

$$\Rightarrow 2(3x + 4y = 15)$$

$$\Rightarrow 6x + 8y = 30 \text{ ---- equation (2)}$$

Subtract equation (1) from equation (2), we get

$$\Rightarrow 5y = 12$$

$$\Rightarrow y = 2.4$$

Substitute $y = 2.4$ in equation (1)

$$\Rightarrow 6x + 3(2.4) = 18$$

$$\Rightarrow 6x = 10.8$$

$$\Rightarrow x = 1.8$$

$$\therefore x < y$$

46. Answer: C)

$$\text{I. } x^2 + 15x - 76 = 0$$

$$\Rightarrow x^2 + 19x - 4x - 76 = 0$$

$$\Rightarrow x(x + 19) - 4(x + 19) = 0$$

$$\Rightarrow (x + 19)(x - 4) = 0$$

Then, $x = -19$ or $x = +4$

$$\text{II. } y^2 + 20y - 96 = 0$$

$$\Rightarrow y^2 + 24y - 4y - 96 = 0$$

$$\Rightarrow y(y + 24) - 4(y + 24) = 0$$

$$\Rightarrow (y + 24)(y - 4) = 0$$

Then, $y = -24$ or $y = +4$

So, when $x = +4$, $x > y$ for $y = -24$ and $x = y$ for $y = +4$

And when $x = -19$, $x > y$ for $y = -24$ and $x < y$ for $y = +4$

\therefore So, we can observe that no clear relationship cannot be determined between x and y .

Quantitative Aptitude

47. Answer: B)

$$40 + 10 = 50$$

$$50 + 20 = 70$$

$$70 + 40 = 110$$

$$110 + 80 = 190$$

$$190 + 160 = 350$$

Therefore, 190 should come in place of 150.

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48. Answer: E)

$$1512 - 8^3 = 1000$$

$$1000 - 7^3 = 657$$

$$657 - 6^3 = 441$$

$$441 - 5^3 = 316$$

$$316 - 4^3 = 252$$

Therefore, 316 should come in place of 324.

49. Answer: E)

$$1800 \div 6 = 300$$

$$300 \div 5 = 60$$

$$60 \div 4 = 15$$

$$15 \div 3 = 5$$

$$5 \div 2 = 2.5$$

Therefore, the series is correct.

50. Answer: B)

$$24 + 2 = 26$$

$$26 + (2 + 4) = 32$$

$$32 + (6 + 6) = 44$$

$$44 + (12 + 8) = 64$$

$$64 + (20 + 10) = 94$$

Therefore, 64 should come in place of 72.

51. Answer: C)

$$132 + 400 = 532$$

$$532 + 200 = 732$$

$$732 + 100 = 832$$

$$832 + 50 = 882$$

$$882 + 25 = 907$$

Therefore, 907 should come in place of 932.

52. Answer: D)

$$? = (14 \times 32 - 13)/15$$

$$= (448 - 13)/15$$

$$= 435/15 = 29$$

53. Answer: E)

$$? = 14^2 + 19^2 + 46^2$$

$$= 196 + 361 + 2116 = 2673$$

54. Answer: D)

$$? = 46 \times 31 + 12 \times 23$$

$$= 1426 + 276$$

$$= 1702$$

55. Answer: A)

$$? = (80 \times 595/100) + (30 \times 740/100)$$

$$= (47600/100) + (22200/100)$$

$$= 476 + 222 = 698$$

56. Answer: B)

$$(?)^2 = 39^2 - 8 - 9^3$$

$$= 1521 - 8 - 729 = 784$$

$$\text{So, } ? = 28$$

57. Answer: C)

Let the price of wheat be Rs.100/kg.

The price of 48 kg wheat = 4800

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After price decrease = $4800/96 = 50$ kg

Hence, the required quantity of wheat = $(50 - 48) = 2$ kg more.

58. Answer: B)

Required selling price = $44000 \times 0.64/0.88 = \text{Rs. } 32000$

59. Answer: C)

Let us assume that the speed of water along the river i.e. the downstream speed = a kmph

Upstream speed = 3.5 kmph

According to the condition given in the problem,

$$1/2 \times (3.5 + a) = 8$$

$$\Rightarrow 3.5 + a = 16$$

$$\Rightarrow a = 16 - 3.5 = 12.5$$

\therefore The downstream speed is 12.5 kmph.

60. Answer: C)

Total distance travelled = 30 m

Speed of the train = 1.5 m/s

Time taken to cross the pole = Distance/speed

\therefore Time taken to cross the pole = $30/1.5 = 20$ sec

61. Answer: B)

$$1 \text{ girl's one day's work} = 1/(4 \times 8) = 1/32$$

This is the least.

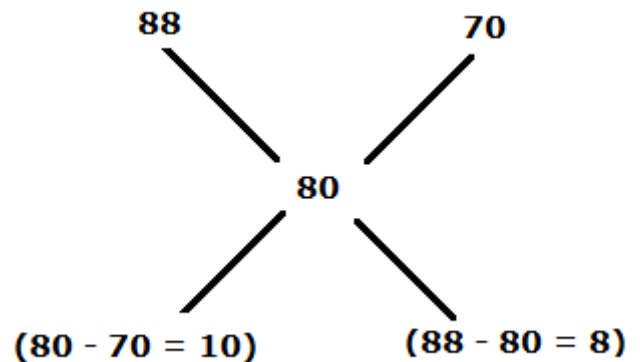
$$1 \text{ boy's one day's work} = 1/27$$

$$1 \text{ men's one day's work} = 1/14$$

$$1 \text{ women's one day's work} = 1/20$$

62. Answer: D)

By alligation method:



Quantity of liquid P: quantity of liquid Q = $10 : 8 = 5 : 4$

Therefore, percentage = $(5/4) \times 100 = 125\%$

63. Answer: A)

Total runs scored in 11 innings = $11 \times 36 = 396$

Total runs scored in next 4 innings = $4 \times 75 = 300$

Therefore, average runs scored in 15 innings = $(396 + 300)/15 = 46.4$

64. Answer: D)

$$CI = 25000[(1 + 16/100)^2 - 1]$$

$$\Rightarrow CI = 25000 \times 0.3456$$

$$\Rightarrow CI = \text{Rs. } 8640$$

65. Answer: B)

Let present age of Manisha and Jitendra are $6x$ years and $7x$ years respectively

So, present age of Megha = $[5(7x + 1)/8 - 1]$ years

Manisha is 15 years older than Megha

$$\Rightarrow 6x = 15 + [5(7x + 1)/8 - 1]$$

$$\Rightarrow x = 9$$

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So, present age of Jitendra = $7 \times 9 = 63$ years

66. Answer: A)

Say X is the rate of profit per year

$\Rightarrow X/12$ is the rate of profit per month.

A invested 4500 for one complete year and Say B invested 3000 for P months.

Profit earned by A = $4500X$ and profit earned by B = $3000 \times (PX/12)$

Both profits are in ratio 2: 1 $\Rightarrow 4500 = 2 \times 3000 \times (P/12)$

$\Rightarrow P = (12 \times 4500)/(2 \times 3000) = 9$ months

\therefore B invested for last 9 months \Rightarrow B joined after $(12 - 9) = 3$ months.

67. Answer: B)

Let the son's present age be x years.

From the given data, it is known that

Father's age at the time of son's birth = Son's present age

$\therefore 50 - x = x$

$\Rightarrow 50 = 2x$

$\Rightarrow x = 25$

\therefore son's age 10 yrs ago = $(25 - 10) = 15$ yrs.

68. Answer: C)

Let the correct questions be x

Therefore incorrect questions are $(80 - x)$

According to the question

$6x - 4(80 - x) = 310$

$6x - 320 + 4x = 310$

$10x = 310 + 320$

$x = 63$

69. Answer: E)

$? = \sqrt{576} + \sqrt{841} - \sqrt{361}$

$= 24 + 29 - 19$

$= 34$

70. Answer: E)

$(?)^2 = 29^2 - 22^2 - 33$

$= 841 - 484 - 33$

$= 324$

$? = 18$

71. Answer: B)

We note that $40\% = 2/5$, $20\% = 1/5$, $88.88\% = 8/9$

So, $? = 160 \times (2/5) + 70 \times (1/5) + 18 \times (8/9)$

$= (5 \times 32) \times (2/5) + (5 \times 14) \times (1/5) + (9 \times 2) \times (8/9)$

$= (2 \times 32) + (1 \times 14) + (8 \times 2) = 94$

72. Answer: D)

$(0.2^1)^{114} \div (0.2^2)^{52} = (0.2^1)^?$

$(0.2)^{(1 \times 114 - 2 \times 52)} = (0.2^1)^?$

So, $? = (1 \times 114 - 2 \times 52) / 1 = 10$

73. Answer: D)

$? = 160 \times 11 + 280 \times 3$

$= 1760 + 840 = 2600$

74. Answer: A)

$45\% \text{ of } 180 - 20 = ? - 109$

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$$0.45 \times 180 - 20 = ? - 109$$

$$? = 61 + 109$$

$$? = 170$$

75. Answer: E)

$$(3/4) \times 280 + 290 = ? + (5/8) \times 640$$

$$(3 \times 70) + 290 = ? + (5 \times 80)$$

$$? = 500 - 400$$

$$? = 100$$

76. Answer: D

From Quantity I,

$$\text{Area of the rectangle} = 216$$

$$3x \times 2x = 216$$

$$x^2 = 36$$

$$x = 6 \text{ cm}$$

$$\text{Perimeter of the rectangle} = 2 \times (3 \times 6 + 2 \times 6) = 60 \text{ cm}$$

From Quantity II,

$$63 \text{ cm}$$

Quantity I < Quantity II

77. Answer: C

From Quantity II,

$$CI = P (1 + R/100)^2 - P$$

$$CI = 1800 \times (1 + 10/100)^2 - 1800$$

$$= 378$$

From Quantity II,

$$\text{Difference} = 37800 \times 10 \times 10 / (100 \times 100)$$

$$= 378$$

Quantity I = Quantity II

78. Answer: D

From Quantity I,

$$18 \text{ seconds}$$

From Quantity II,

$$\text{Required time} = 180 / (20 \times 5/18) = 32.4 \text{ seconds.}$$

Quantity I < Quantity II

79. Answer: A

From Quantity I,

$$(4x + 8) / (5x + 8) = 5/6$$

$$25x + 40 = 24x + 48$$

$$x = 8 \text{ years}$$

$$A = 4 \times 8 = 32 \text{ years}$$

$$B = 5 \times 8 = 40 \text{ years}$$

After 15 years A and B's age is 47 and 55 years respectively.

Difference between the ages of A and B = 8 years

From Quantity II,

$$6 \text{ years}$$

Quantity I > Quantity II

80. Answer: D

From Quantity I,

$$A = 1/10$$

$$B = 1/18$$

$$C = 18 \times 100 / 150 = 12 \text{ days}$$

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$$A + B + C = 1/10 + 1/18 + 1/12$$

$$= (18 + 10 + 15)/180$$

$$= 43/180$$

$$\text{Required time} = 180/43 \text{ days}$$

From Quantity II,

5 days

Quantity I < Quantity II

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