

# REGIONAL RURAL BANKS (RRBs)

## OFFICE ASSISTANT EXAM 2019

Based on Memory

### PRELIMINARY EXAMINATION (OBJECTIVE)\*

Sr. No.	Name of Tests (Objective)	No. of Questions	Medium of Exam	Maximum Marks	Duration
1.	Numerical Ability	40	Hindi/English	40	Composite time of 45 minutes
2.	Reasoning	40	Hindi/English	40	
	Total	80		80	

\*Candidates have to qualify in both the tests by securing minimum cut-off marks. Adequate number of candidates in each category, depending upon requirements, will be shortlisted for Online Main Examination.

### INSTRUCTIONS

- (1) Time limit to complete this test is 45 minutes no sectional timing.
- (2) It is not necessary for the candidate to attempt the section in order of their arrangement in this test. You can choose to attempt any section first, as per your preference. All questions are compulsory and carry equal marks.
- (3) Do not use calculators, or any electronic medium for calculations. You may take a clean sheet of paper for rough work and all calculations must be performed manually by the candidate.
- (4) There will be penalty for wrong answer marked by you in the objective tests. There are five alternatives in every question of a test.
- (5) For each question for which a wrong answer has been given by you, 1/4 or 0.25 of the marks assigned to that question will be deducted as penalty. If a question is left blank, i.e. no answer is given by you, there will be no penalty for that question.

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## NUMERICAL ABILITY

**Direction (Qs.1-5):** Read the following information carefully and answer the questions that follow:

The data in the given table is number of erasers sold by five sellers on five different days of the week. Study the given data carefully and answer the given questions based on it.

	Monday	Tuesday	Wednesday	Thursday
A	35	45	30	70
B	45	55	90	35
C	75	35	65	55
D	60	30	45	40
E	85	40	85	65

- If the sales of erasers from E on Friday was 60% of that on Wednesday and Thursday together. Find the number of erasers sold by E on Friday.  
(1) 20      (2) 30      (3) 40      (4) 50      (5) 90
- What is the approximate percentage increase in the sale of erasers by seller A from Monday to Tuesday?  
(1) 19      (2) 29      (3) 39      (4) 49      (5) 59
- The number of erasers sold by seller B on Monday is how much more/less than that on Thursday and Wednesday together?  
(1) 20      (2) 40      (3) 60      (4) 80      (5) 100
- What is the ratio of number of erasers sold by A and D on Monday and C and B on Tuesday?  
(1) 10 : 11      (2) 11 : 10      (3) 19 : 18      (4) 18 : 19      (5) 20 : 19
- The number of erasers sold by C on Tuesday is approximately how much percent less than the number of erasers sold by D on Monday.  
(1) 42      (2) 49      (3) 54      (4) 62      (5) 73

**Direction (Qs.6-10):** What should come in place of question mark (?) in the following question?

- $(23 \times 8) - (13 \times 5) + 67 = ? \times 6$   
(1) 21      (2) 31      (3) 41      (4) 33      (5) None of these
- $(125 \div 0.5) \div 0.5 = 80\% \text{ of } ?$   
(1) 500      (2) 525      (3) 550      (4) 600      (5) 625
- $4\frac{1}{2} + \left(1 \div 2\frac{8}{9}\right) - 3\frac{1}{13} = ?$   
(1)  $\frac{23}{13}$       (2)  $\frac{13}{23}$       (3)  $\frac{25}{13}$       (4)  $\frac{25}{26}$       (5) None of these

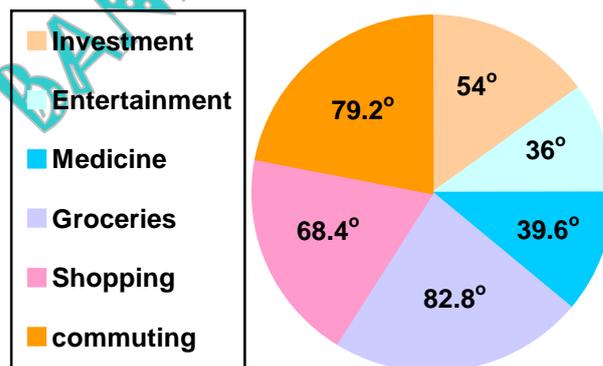
9.  $345 + \sqrt{?} = 19^2 + 27 \times 8 \div 24$   
 (1) 625 (2) 365 (3) 246 (4) 235 (5) 258
10.  $150\% \text{ of } 460 + 24\% \text{ of } 650 = ?$   
 (1) 854 (2) 846 (3) 895 (4) 825 (5) 864

**Direction (Qs.11 to 15):** What approximate value will come in place of the question mark (?) in the following question? (You are not expected to calculate the exact value.

11.  $69631.89 \div 67.95 - 79.82 + 986.85 \times 0.9 + (12.999)^3 = ?$   
 (1) 4520 (2) 4125 (3) 4250 (4) 4870 (5) 4380
12.  $(455\% \text{ of } 123.321) \div 296.278 = ?$   
 (1) 1 (2) 5 (3) 3 (4) 2 (5) None of these
13.  $(45399 + 12549 - 3500.02) + 2498 \div 19.95$   
 (1) 58213 (2) 54307 (3) 56094 (4) 54575 (5) None of these
14.  $(111.93 \times 5) \div 7.02 = 11.002 + 16.023 + ?$   
 (1) 54 (2) 53 (3) 52 (4) 49 (5) 61
15.  $\sqrt{484.01} + \sqrt{783.89} - \sqrt{360.98} = 20\% \text{ of } ?$   
 (1) 140 (2) 150 (3) 145 (4) 155 (5) 165

**Direction (Qs.16-20):** Study the following pie-chart carefully to answer the questions that follows:

Degree-wise break-up of expenditure of a family in a month. Total amount spent in a month is Rs.91,600/-



16. What is the amount spent by the family on Commuting?  
 (1) Rs.20,152 (2) Rs.20,534 (3) Rs.16,870  
 (4) Rs.18,702 (5) None of these
17. What is the ratio of amount spent by the family on Medicine to the amount spent on Groceries?  
 (1) 1 : 2 (2) 13 : 21 (3) 3 : 5 (4) 11 : 23 (5) None of these

18. What is the total amount spent by the family on Entertainment and Shopping together?  
 (1) Rs.29,618 (2) Rs.26,564 (3) Rs.23,740  
 (4) Rs.31,908 (5) None of these
19. The total amount spent by the family on Groceries, Entertainment and investments together forms approximately what percent of the amount spent on commuting?  
 (1) 209% (2) 76% (3) 154% (4) 42% (5) 218%
20. Amount spent on investment is what percent more than the amount spent on entertainment?  
 (1) 47% (2) 52% (3) 74% (4) 75% (5) 50%

**Direction (Qs.21-25): What should come in place of the question mark '?' in the following number series?**

21. 6 9 11 ? 16 19 21 24  
 (1) 12 (2) 14 (3) 13 (4) 15 (5) 19
22. 30 60 20 ? 16 96  
 (1) 90 (2) 100 (3) 80 (4) 70 (5) 96
23. 505 495 475 435 ? 195  
 (1) 355 (2) 350 (3) 455 (4) 450 (5) 275
24. -1 2 15 44 95 ?  
 (1) 204 (2) 106 (3) 128 (4) 174 (5) None of these
25. 244 305 366 427 ?  
 (1) 498 (2) 398 (3) 452 (4) 436 (5) 488

**Direction (Qs.26-30): In the following question two equations are given. You have to solve both and establish the relation between given variables.**

26. I.  $21a^2 - 26a + 8 = 0$  II.  $3b^2 + 16b - 12 = 0$   
 (1)  $a < b$  (2)  $a > b$  (3)  $a \geq b$   
 (4)  $a \leq b$  (5)  $a = b$  or no relationship can be established
27. I.  $39a^2 - 75a + 36 = 0$  II.  $36b^2 - 57b + 21 = 0$   
 (1)  $a > b$  (2)  $a < b$  (3)  $a \leq b$   
 (4)  $a \geq b$  (5) Relationship can't be established
28. I.  $3a^2 + 10a - 8 = 0$  II.  $2b^2 - 9b + 9 = 0$   
 (1)  $a > b$  (2)  $a < b$  (3)  $a \leq b$   
 (4)  $a \geq b$  (5) relationship can't be established
29. I.  $x^2 - 30x + 216 = 0$  II.  $y^2 - 39y + 360 = 0$   
 (1)  $x > y$  (2)  $x \geq y$  (3)  $x < y$   
 (4)  $x \leq y$  (5)  $x = y$  or the relationship can't be established

30. I.  $3x^2 - 29x + 18 = 0$                       II.  $2y^2 - 22y + 56 = 0$   
 (1)  $x > y$                                       (2)  $x \geq y$                                       (3)  $x < y$   
 (4)  $x \leq y$                                       (5)  $x = y$  or the relationship can't be established
31. The average salary per head of all the employees in a company is Rs.220. The average salary of 10 officers is Rs.650 and average salary per head of the rest is Rs.200. Find the total number of employees in the workshop.  
 (1) 150            (2) 175            (3) 200            (4) 225            (5) None of these
32. A is 8 years older than B and B is 12 years younger than C. If the sum of the ages of A, B and C is 80 years, then what is B's age after 10 years?  
 (1) 20 years    (2) 30 years    (3) 28 years    (4) 22 years    (5) None of these
33. Two trains, each of length 240 metre, are running in parallel tracks in opposite direction. One train is running at a speed of 50 kmph and they cross each other in 8 seconds. What is the speed of the other train?  
 (1) 140 kmph    (2) 145 kmph    (3) 156 kmph    (4) 166 kmph    (5) None of these
34. A container contains 50 liters of milk. From this container 5 liters of milk was taken out and replaced by water. This process was repeated further two times. How much milk is now contained by the container?  
 (1) 40 liters    (2) 45.67 liters    (3) 37 liters    (4) 42.87 liters    (5) None of these
35. How many natural numbers are there between 10 and 205 which are exactly divisible by 8?  
 (1) 12            (2) 24            (3) 8            (4) 16            (5) None of these
36. Arunika bought some articles and sold half of them at Rs.22,103 thereby making a profit of 15%. At what price should she sell the rest of them so as to earn an overall profit of 25%?  
 (1) Rs.25,947                                      (2) Rs.23,528                                      (3) Rs.27,130  
 (4) Rs.24,682                                      (5) Rs.26,240
37. Aman is four times as efficient as Karan in doing a piece of work and hence completes the work 9 hours before Karan. In how much time will the work be completed, if they work together?  
 (1) 3 hrs 36 mints                                      (2) 2 hrs 48 mints                                      (3) 2 hrs 24 mints  
 (4) 3 hours    (5) 2 hours 12 minutes
38. Neha scored 1.2 times as many marks in Science as in Sanskrit and in Social Science she scored 20 more marks than Science. If she secured 85.5% marks in these three subjects out of a total 600 marks (in the given three subjects only), how much did she score in Social Science?  
 (1) 194            (2) 174            (3) 170            (4) 185            (5) None of these
39. A car covers first half of certain journey with speed of 50 km/h and second half journey with speed of 40 km/h. If it takes 9 hours to cover total distance. What is the distance covered in whole journey?  
 (1) 200 km    (2) 400 km    (3) 500 km    (4) 300 km    (5) 150 km

40. The total number of students studying in a college is 4220. If the number of girls studying in the college is 2420, what is the respective ratio of the number of boys to the number of girls studying in the college?  
(1) 90 : 131 (2) 90 : 121 (3) 121 : 70 (4) 121 : 80 (5) None of these

## REASONING

**Direction (Qs.41-45): Study the following arrangement of numbers, letters and symbols carefully and answer the questions given below:**

R @ 2 9 T V A Y 5 © # J 1 P 8 Q \$ E 3 \* H % 6 W 4 I δ U Z

41. Four of the following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?  
(1) JP© (2) E\*Q (3) WI% (4) 9V@ (5) 1#5
42. Which of the following is the nineteenth to the left of the fifth element from the right end?  
(1) J (2) V (3) W (4) 8 (5) None of these
43. How many such numbers are there in the above arrangement, each of which is immediately preceded by a consonant and immediately followed by a symbol?  
(1) One (2) Two (3) Three (4) Four (5) More than Four
44. If the positions of the last eighteen elements in the above arrangement are reversed, which of the following will be the seventeenth from the left end?  
(1) H (2) P (3) W (4) 6 (5) None of these
45. How many such vowels are there in the above arrangement, each of which is either immediately followed by a symbol or immediately preceded by a symbol?  
(1) None (2) One (3) Two (4) Three (5) Four

**Direction (Qs.46-50): Study the following information and answer the given questions.**

A certain number of boxes are placed one above the another in such a way that box at the bottom is numbered as 1 and box just above it is numbered 2 and so on. There are not more than 14 boxes in the arrangement. Only 2 boxes are kept between P and Q, where Q is kept below P. Only 3 boxes are kept between R and Q. S is kept between Q and J, which is placed immediately below P. Only 3 boxes are kept between R and B which is kept either at the top or at the bottom of the stack. Only 2 boxes are kept between R and T, which is not placed adjacent to B. Box D is placed exactly between E and F. U is placed exactly between T and W. W is placed above R.

46. Which among the following boxes is placed immediately above R?  
(1) E (2) F (3) W (4) U (5) D

47. How many boxes are kept below F?  
 (1) None (2) 1 (3) 2 (4) 3 (5) Can't say
48. If T is related to S and U is related to Q. In the same way, R is related to?  
 (1) B (2) F (3) E (4) W (5) None of these
49. How many boxes are kept between T and R?  
 (1) None (2) 1 (3) 2 (4) 3 (5) More than 3
50. Which among the following is kept at numbered 7?  
 (1) E (2) T (3) W (4) U (5) D

**Direction (Qs.51-54): 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 answer accordingly.**

51. **Statements:**  $S \leq Q \leq R$ ,  $B = P$ ,  $P < S$   
**Conclusions:** I.  $P < Q$  II.  $P < R$   
 (1) Only I is true  
 (2) Only II is true  
 (3) Either I or II is true  
 (4) Neither I nor II is true  
 (5) Both I and II are true
52. **Statements:**  $Y > P$ ,  $W = X \leq Y$ ,  $P \geq 3$   
**Conclusions:** I.  $Y = 3$  II.  $W < Y$   
 (1) Only I is true  
 (2) Only II is true  
 (3) Either I or II is true  
 (4) Neither I nor II is true  
 (5) Both I and II are true
53. **Statements:**  $J \leq K$ ,  $K = A \geq B$ ,  $B > C$   
**Conclusions:** I.  $J \leq A$  II.  $J = A$   
 (1) Only I is true  
 (2) Only II is true  
 (3) Either I or II is true  
 (4) Neither I nor II is true  
 (5) Both I and II are true
54. **Statements:**  $H < E < G$ ,  $M = F$ ,  $F = G$   
**Conclusions:** I.  $G = M$  II.  $H < F$   
 (1) Only I is true  
 (2) Only II is true  
 (3) Either I or II is true  
 (4) Neither I nor II is true  
 (5) Both I and II are true

55. Four of the following five are alike in a certain way as per the English alphabetical order and thus form a group. Which of the following does not belong to the given group?  
 (1) HKJI (2) PSRQ (3) ADCB (4) MONL (5) VYXW

**Direction (Qs.56-60): Read the following information carefully and answer the questions based on it.**

In a certain code language,

'All might be great' is coded as 'xj vs lo mk'

'Some school are great' is coded as 'mo xj qu si'

'Kapil might be successful' is coded as 'vs mk cv re'

'Work are also good' is coded as 'qu df ed ui'

**56.** What is the code of 'great'?

- (1) qu            (2) xj            (3) ed            (4) qu or xj            (5) None of these

**57.** Which of the following sentences can be used to find the code of 'school'?

- (1) Some school are good            (2) School kapil are great  
(3) All school are great            (4) Either (2) or (3)            (5) None of these

**58.** What is the code of 'be'?

- (1) mk            (2) vs            (3) mk or vs  
(4) None of these            (5) Can't say

**59.** Which of the following shows 'qu'?

- (1) Are            (2) Also            (3) School            (4) Some            (5) None of these

**60.** How to code 'Science might be great'?

- (1) mk vs xj qu            (2) mk vs xj ed            (3) mk xj ed df  
(4) vs ed df cv            (5) mk vs ms xj

**Direction (Qs.61 to 63): Study the information given below and answer the questions based on it.**

A person is standing at point B. He starts walking towards his north and walks for 4 m, then he takes a left turn and walks for 6 m, then he takes a left turn again and walks for 2 m, then he takes a right turn and walks for 3 m, then he takes a left turn and walks for 2 m and stopped at point A. Point O is 6 m to the west of point B and point Q is 2 m to the north of point O.

**61.** If Point C is 6m to the east of point Q then what is distance between point B and point C?

- (1) 1 m            (2) 2 m            (3) 3 m            (4) 4 m            (5) 5 m

**62.** In which of the following direction is point A with respect to point Q?

- (1) South-East            (2) East            (3) West            (4) North-East  
(5) South-West

**63.** What is the distance between point A and point B?

- (1) 8 m            (2) 7 m            (3) 9 m            (4) 11 m            (5) 10 m

**Direction (Qs.64-65): Study the following data carefully and answer the questions accordingly.**

There are nine members in a family of three generations. U is not the father of A. O is the brother-in-law of X. U is the son-in-law of R, who is the mother of I. V is the brother-in-law of F. O is the maternal grandfather of A, who is the nephew of F. I is the mother of A. B is the sister of A.

**64.** Who is the father of B?

- (1) O                      (2) F                      (3) U                      (4) V                      (5) None of these

**65.** How U is related to R?

- (1) Daughter-in-law                      (2) Son-in-law                      (3) Son  
(4) Daughter                      (5) None of these

**Direction (Qs.66-68): In each of the questions below, statements are given followed by two conclusions numbered I and II. Read all the conclusions and then decide which of the given conclusions follow from the given statements.**

**66. Statements:** Some India are Russians  
All Russians are Brazils  
No Brazil is Italy  
Some Americas are Brazils

**Conclusions:** I. No Russia is Italy  
II. Some Russians are Americas

- (1) **Only** I follows  
(2) **Only** II follows  
(3) **Either I or II** follows  
(4) **Neither I nor II** follows  
(5) **Both I and II** follow

**67. Statements:** Some Monday are Tuesdays  
All Wednesday are Tuesdays  
Some Wednesday are Friday  
No Saturday is Monday

**Conclusions:** I. All Friday are Saturday is a possibility  
II. All Tuesday are Saturday is a possibility

- (1) **Only** I follows  
(2) **Only** II follows  
(3) **Either I or II** follows  
(4) **Neither I nor II** follows  
(5) **Both I and II** follow

**68. Statements:** All A are B  
Some C are A  
No C is D  
Some D are E

**Conclusions:** I. Some A are not D  
II. Some E are not B

- (1) **Only** I follows
- (2) **Only** II follows
- (3) **Either** I **or** II follows
- (4) **Neither** I **nor** II follows
- (5) **Both** I **and** II follow

**Direction (Qs.69-70):** Read the following information carefully to answer the questions based on it.

P's interview is before Q's interview. R's interview is before Q's interview but after P's interview. S' interview is after T's and Q's interview. Q's interview is before T's interview.

**69.** Whose interview is exactly in the middle of all the five?

- (1) Q                      (2) P                      (3) T                      (4) R                      (5) S

**70.** Whose interview is just between R's and T's interview?

- (1) Q                      (2) S                      (3) P                      (4) Either S or Q                      (5) Can't say

**Direction (Qs.71-75):** Study the following data carefully and answer the questions accordingly.

A certain number of people are sitting in a row facing south. R sits second to the right of H. Only two people sit between H and I. Six persons sit between I and J. L sits third to the right of M. N sits fifth to the right of I. Not more than five people sit to the right of J. L sits fifth to the left of H. Only five people sit between L and F. H is not sitting near to F.

**71.** How many persons are sitting in the row?

- (1) 26                      (2) 20                      (3) 25                      (4) Can't say                      (5) None of these

**72.** What is the position of R from L?

- (1) Ninth to the right                      (2) Eighth to the left                      (3) Seventh to the right  
(4) Sixth to the left                      (5) None of these

**73.** How many persons are sitting between N and H?

- (1) Six                      (2) Eight                      (3) Ten                      (4) Seven                      (5) None of these

**74.** How many persons are sitting to the left of I?

- (1) Eleven                      (2) Fifteen                      (3) Thirteen                      (4) Fourteen                      (5) None of these

75. Find the correct statement from the following.

- (1) Three people are sitting to the right of N
- (2) Seven people are sitting to the left of L
- (3) Three people are sitting between I and H
- (4) J sits seventh to the right of I
- (5) None of these

**Direction (Qs.76-80): Study the following information carefully and answer the below questions.**

Eight persons are sitting in a square table such that the persons sit in the middle of the table face inside and the persons sitting at the corners face outside the table. Equal number of persons sit at corner and middle of the table. Three persons sit between J and R. E sits second left of R. P is an immediate neighbor of J and E. Two persons sit between H and P. H faces inside the table. A sits third right of E. I is one of the persons and I is an immediate neighbor of R. L is one of the persons.

76. Who among the following persons sits exactly between L and A?

- (1) I
- (2) H
- (3) P
- (4) J
- (5) None of these

77. Who among the following sits second to the left of A?

- (1) L
- (2) R
- (3) P
- (4) J
- (5) None of these

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

- (1) H
- (2) P
- (3) R
- (4) J
- (5) E

79. Who among the following sits to the immediate right of I?

- (1) E
- (2) R
- (3) A
- (4) H
- (5) None of these

80. In which among the following pairs, first person sits to the immediate left of the second person?

- (1) A, R
- (2) L, J
- (3) H, L
- (4) I, E
- (5) None of these

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**ANSWERS WITH EXPLANATION**

**NUMERICAL ABILITY**

1. **Ans (5): 90**

Sale of erasers by E on Friday = 60% of (85 + 65) = 60% of 150 = 90

2. **Ans (2): 29**

$$\text{Percentage increase} = \frac{(45 - 35)}{35} \times 100 = \frac{10}{35} \times 100 = \frac{200}{7} \approx 29\%$$

3. **Ans (4): 80**

$$\text{Required difference} = (90 + 35) - 45 = 80$$

4. **Ans (3): 19 : 18**

$$\text{Required ratio} = \frac{(35 + 60)}{(55 + 35)} = \frac{95}{90} = 19 : 18$$

5. **Ans (1): 42**

$$\text{Required percentage} = \left[ \frac{(60 - 35)}{60} \right] \times 100 \approx 42\%$$

6. **Ans (2): 31**

$$184 - 65 + 67 = ? \times 6 \Rightarrow 186 = ? \times 6$$

$$\therefore ? = \frac{186}{6} = 31$$

7. **Ans (5): 625**

$$\frac{125}{0.5 \times 0.5} = \frac{80}{100} \times ? \Rightarrow ? = \frac{500 \times 100}{80} = 625$$

8. **Ans (1):  $\frac{23}{13}$**

$$? = \frac{9}{2} + \left( 1 \div \frac{26}{9} \right) - \frac{40}{13} \Rightarrow ? = \frac{9}{2} + \frac{9}{26} - \frac{40}{13} \Rightarrow ? = \frac{117 + 9 - 80}{26} = \frac{46}{26} = \frac{23}{13}$$

9. **Ans (1): 625**

$$345 + \sqrt{?} = 361 + 27 \times \frac{1}{3} \Rightarrow 345 + \sqrt{?} = 361 + 9 \Rightarrow \sqrt{?} = 370 - 345 = 25 \Rightarrow ? = 625$$

10. **Ans (2): 846**

$$\frac{150}{100} \times 460 + \frac{24}{100} \times 650 \Rightarrow 690 + 156 = 846$$

11. **Ans (2): 4125**

$$? \approx \frac{69632}{68} - 80 + 987 \times 0.9 + 13^3 \Rightarrow ? = 4208 - 80 = 4228 \approx 4125$$

12. **Ans (4): 2**

$$123 \times \frac{455}{100} \div 296 = 559.65 \div 296 = 1.89 \approx 2$$

13. **Ans (4): 54575**

$$(45399 + 12549 - 3500.02) + 2498 \div 19.95$$
$$(45400 + 12550 - 3500) + \frac{2500}{20} \Rightarrow 54450 + 125 = 54575$$

14. **Ans (2): 53**

$$(112 \times 5) \div 7 = 11 + 16 + ? \Rightarrow ? = 80 - 11 - 16 = 53$$

15. **Ans (4): 155**

$$\sqrt{484} + \sqrt{784} - \sqrt{361} = \frac{20}{100} \times ? \Rightarrow ? = (22 + 28 - 19) \times 5 \Rightarrow ? = 155$$

For (Qs.16-20):

Category	Expenditure
Investments	13740
Entertainment	9160
Medicine	10076
Groceries	21068
Shopping	17404
Commuting	20152

16. **Ans (1): Rs.20,152**

$$\text{Amount of commuting} = \left(\frac{79.2}{360}\right) \times 91600 = 20152$$

17. **Ans (4): 11 : 23**

$$\text{Required ratio} = \frac{39.6}{82.8} = \frac{11}{23} = 11 : 23$$

18. **Ans (2): Rs.26,564**

$$\text{Total amount spent} = 9160 + 17404 = \text{Rs.26564}$$

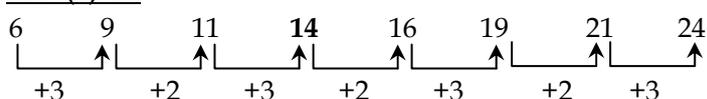
19. **Ans (5): 218%**

$$\text{Required percentage} = \frac{21068 + 9160 + 13740}{20152} \times 100 = \frac{43968}{20152} \times 100 = 218\%$$

20. **Ans (5): 50%**

$$\text{Required percentage} = \frac{(54 - 36)}{36} \times 100 = 50\%$$

21. **Ans (2): 14**





31. **Ans (4): 225**

$$\begin{aligned} \text{Total employees} &= x \\ 10 \times 650 + (x - 10) \times 200 &= x \times 220 \\ \Rightarrow 6500 + 200x - 2000 &= 220x \Rightarrow x = 225 \end{aligned}$$

32. **Ans (2): 30 years**

$$\begin{aligned} A - B &= 8 \\ C - B &= 12 \\ A + B + C = 80 &\Rightarrow B + 8 + B + 12 + B = 80 \Rightarrow 3B = 60 \Rightarrow B = 20 \text{ years} \\ \text{After 10 years B's age} &= 20 + 10 = 30 \text{ years} \end{aligned}$$

33. **Ans (4): 166 kmph**

$$\begin{aligned} \text{Speed of second train} &= x \text{ kmph} \\ (50 + x) \times \frac{5}{18} &= \frac{(240 + 240)}{8} \Rightarrow x = 166 \text{ kmph} \\ \therefore \text{Speed of train} &= 166 \text{ kmph.} \end{aligned}$$

34. **Ans (5): None of these**

$$\begin{aligned} \text{Amount of milk after three time} &= \left[ 50 \left( 1 - \frac{5}{50} \right)^3 \right] \text{ liters} \\ &= 50 \times \frac{45}{50} \times \frac{45}{50} \times \frac{45}{50} = 36.45 \text{ liters} \end{aligned}$$

35. **Ans (2): 24**

$$\begin{aligned} \text{First number} &= 16, \text{ Last number} = 200 \\ \text{Last number} &= \text{First number} + (n - 1) \times 8 \\ \Rightarrow 200 &= 16 + (n - 1) \times 8 \Rightarrow n = 24 \end{aligned}$$

36. **Ans (1): Rs.25,947**

$$\begin{aligned} \text{Let CP of half of the articles} &= \text{Rs. } x \\ \text{According to the question} &\frac{115}{100}x = 22103 \\ x &= 19220 \\ \text{CP of all articles} &= 2 \times 19220 = \text{Rs. } 38440 \\ \text{For profit of 25\%} & \\ \text{Total SP} &= \frac{38440 \times 125}{100} = \text{Rs. } 48050 \\ \text{Required SP} &= 48050 - 22103 = \text{Rs. } 25947 \end{aligned}$$

37. **Ans (3): 2 hour 24 minutes**

$$\begin{aligned} \text{A man : Karan} &= 4 : 1 \text{ (efficiency)} \\ \text{A man : Karan} &= 1 : 4 \text{ (Time taken)} \\ \therefore \text{A man} &\frac{1}{3} \times 9 = 3 \text{ hr} \\ \text{Karan} &= \frac{4}{3} \times 9 = 12 \text{ hr} \\ \therefore \frac{1}{3} + \frac{1}{12} &= \frac{5}{12} \\ \text{Total time taken} &= \frac{12}{5} = 2.4 \text{ hr} = 2 \text{ hr } 24 \text{ min} \end{aligned}$$

38. **Ans (1): 194**

Let marks scored in Sanskrit be  $x$

Marks in science =  $1.2x$

Marks in social science =  $20 + 1.2x$

Total marks scored by Neha = 85.5% of 600 = 513

$x + 1.2x + 20 + 1.2x = 513 \Rightarrow 3.4x + 20 = 513 \Rightarrow x = 145$

Thus marks scored in social science =  $20 + 1.2x = 194$

39. **Ans (2): 400 km**

It covered the total distance in two equal parts with speeds of 50 and 40 km/h.

Average speed of the journey =  $\frac{2xy}{x+y} = 2 \times 50 \times \frac{40}{50+40} = \frac{400}{9}$

It takes 9 hours to cover the total distance

Distance covered = Average speed  $\times$  Time =  $\frac{400}{9} \times 9 = 400$  km

40. **Ans (2): 90 : 121**

Number of boys in college =  $4220 - 2420 = 1800$

Required ratio =  $1800 : 2420 = 90 : 121$

## REASONING

41. **Ans (5): 1# 5**

J  $\xrightarrow{+2}$  P  $\xrightarrow{-4}$  ©

E  $\xrightarrow{+2}$  \*  $\xrightarrow{-4}$  O

W  $\xrightarrow{+2}$  I  $\xrightarrow{-4}$  %

9  $\xrightarrow{+2}$  V  $\xrightarrow{-4}$  @

1  $\xrightarrow{-2}$  #  $\xrightarrow{-2}$  5

42. **Ans (2): V**

V is nineteenth to the left of fifth element from the right end.

43. **Ans (1): One**

Consonant/Number/Symbol

Such combination is Y5©

44. **Ans (3): W**

R @ 2 9 T V A Y 5 © # Z U δ I 4 W 6 % H \* 3 E \$ Q 8 P 1 J

W is seventeenth from the left end.

45. **Ans (4): Three**

Symbol/Vowel or Vowel/Symbol

Such combinations are \$E, Iδ, δU

For (Qs.46-50):

Box Number	Box
12	P
11	J
10	S
9	Q
8	T
7	U
6	W
5	R
4	E/F
3	D
2	E/F
1	B

46. **Ans (3): W**  
W is placed immediately above R.
47. **Ans (5): Can't say**  
Position of F is not clear.
48. **Ans (5): None of these**  
R is related to U.
49. **Ans (3): 2**  
Two boxes are kept between T and R.
50. **Ans (4): U**  
U is kept at numbered 7.
51. **Ans (5): Both I and II are true**  
Statement:  $B = P < S \leq Q \leq R$   
Conclusions: I.  $P < Q$  (✓) II.  $P < R$  (✓)
52. **Ans (4): Neither I nor II is true**  
Statement:  $W = X \leq Y > P \geq 3$   
Conclusions: I.  $Y = 3$  (✗) II.  $W < Y$  (✗)
53. **Ans (1): Only I is true**  
Statement:  $J \leq K = A \geq B > C$   
Conclusions: I.  $J \leq A$  (✓) II.  $J = A$  (✗)
54. **Ans (5): Both I and II are true**  
Statement:  $H < E < G = F = M$   
Conclusions: I.  $G = M$  (✓) II.  $H < F$  (✓)

55. **Ans (4): MONL**

$$\begin{aligned} H &\xrightarrow{+3} K \xrightarrow{-1} J \xrightarrow{-1} I \\ P &\xrightarrow{+3} S \xrightarrow{-1} R \xrightarrow{-1} Q \\ A &\xrightarrow{+3} D \xrightarrow{-1} C \xrightarrow{-1} B \\ M &\xrightarrow{+2} O \xrightarrow{-1} N \xrightarrow{-2} L \\ V &\xrightarrow{+3} Y \xrightarrow{-1} X \xrightarrow{-1} W \end{aligned}$$

For (Qs.56-60):

<b>Word</b>	all	might/be	great	some/school	are	kapil/successful	work/also/good
<b>Code</b>	lo	vs/mk	xj	mo/si	qu	cv/re	df/ed/ui

56. **Ans (2): xj**

'great' is coded as 'xj'.

57. **Ans (4): Either (2) or (3)**

The sentence can be used to find the code of 'school' is either 'school kapil are great' or 'all school are great'.

58. **Ans (3): mk or vs**

'be' can be coded as 'either 'mk or vs'.

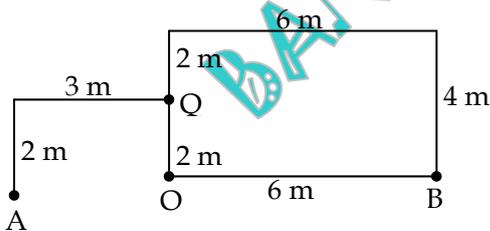
59. **Ans (1): Are**

'are' is coded as 'qu'.

60. **Ans (5): mk vs ms xj**

'science might be great' is coded as 'mk vs ms xj'.

For (Qs.61-63):



61. **Ans (2): 2 m**

Point B is 2 m away from point C.

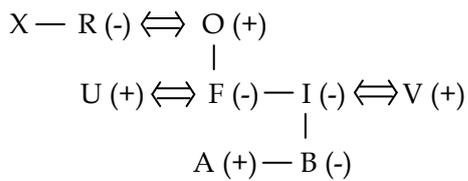
62. **Ans (5): South-West**

Point A is South-West of Point Q.

63. **Ans (3): 9 m**

Point A is 9 m away from point B.

For (Qs.64-65):



(+)	→ Male
(-)	→ Female
	→ Next Generation
-	→ Sibling
↔	→ Couple

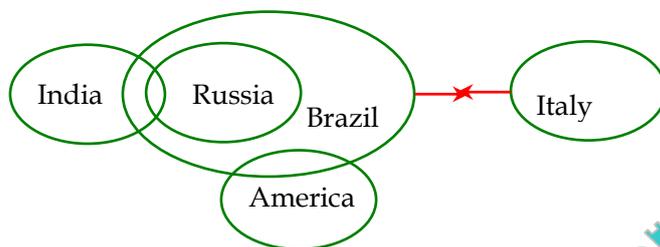
66. **Ans (4): V**

V is the father of B.

67. **Ans (2): Son-in-law**

U is son-in-law of R.

66. **Ans (1): Only I follows**



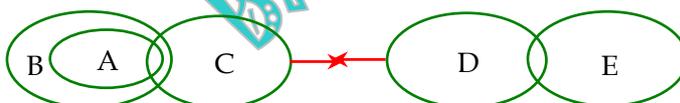
**Conclusions:** I. No Russia is Italy (✓)  
II. Some Russians are Americas (×)

67. **Ans (1): Only I follows**



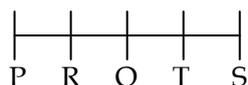
**Conclusions:** I. All Friday are Saturday is a possibility (✓)  
II. All Tuesday are Saturday is a possibility (×)

68. **Ans (1): Only I follows**



**Conclusions:** I. Some A are not D (✓)  
II. Some E are not B (×)

For (Qs.69-70):



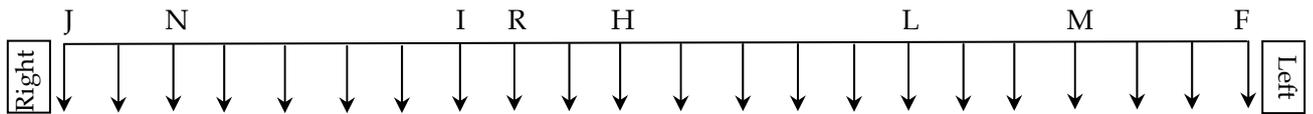
69. **Ans (1): Q**

Q's interview is exactly in the middle.

70. **Ans (1): Q**

Q's interview is just between R's and T's interview

For (Qs.71-75):



71. **Ans (4): Can't say**

Not more than 5 people sit right of J means that there can be 4, 3, 2, 1 or none people to the right of J.

72. **Ans (3): Seventh to the right**

R is seventh to the right of L.

73. **Ans (4): Seven**

Seven persons are sitting between N and H.

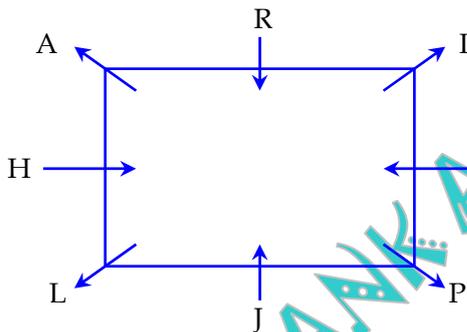
74. **Ans (4): Fourteen**

Fourteen persons are sitting to the left of I.

75. **Ans (4): J sits seventh to the right of I**

J sits seventh to the right of I is the correct statement.

For (Qs.76-80):



76. **Ans (2): H**

H sits exactly between L and A.

77. **Ans (1): L**

L sits second to the left of A.

78. **Ans (2): P**

Except P, all others are sitting at the middle.

79. **Ans (1): E**

E sits to the immediate right of I.

80. **Ans (2): L, J**

L sits to the immediate left of J.

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