

# IBPS Clerk Prelims 2018

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## Memory Based Question Paper



**Direction (1 – 5) :** Read the given passage carefully and answer the questions that follow. Certain words are printed in bold to help you locate them while answering some of these. A decade ago, working from home may have seemed like a distant dream. Today, it's the future of work. With millennials the driving force behind this shift in the workforce, remote work was dismissed as another "annoying" millennial trait. As more companies adopt telecommuting practices, the benefits are very clear. **No longer is remote work about working on a beach**, it's a complete design in how we approach the way we work. Here are the benefits and reasons why to embrace telecommuting and remote work. It is estimated that employers in the US lose \$1.8 trillion a year in productivity. From distractions like water cooler gossip to excessive commuting, health problems and more. Workers are finding it harder than ever to hit maximum productivity in a traditional office work environment. The solution? Telecommuting.

According to the State of Work Productivity Report, 65% of full-time employees think a remote work schedule would increase productivity. This is backed up by more than two-thirds of managers reporting an increase in overall productivity from their remote employees. Where do telecommuters find this extra boost of productivity? With none of the distractions from a traditional office setting, telecommuting drives up employee efficiency. It allows workers to retain more of their time in the day and adjust to their personal mental and physical well-being needs that **optimize** productivity. Removing something as simple as a twenty-minute commute to work can make all world of difference. If you are ill, telecommuting allows one to recover faster without being forced to be in the office. It also improves the impact on our overall health. As a

diabetic, health is the number one priority. If our health is not in good condition, then it is inevitable that our productivity will also decline. The average person in the U.K. spends 60-80 minutes getting to and from work. With the drive to reduce our carbon footprint, telecommuting is an excellent way for your company to go green and improve your employees' general well-being. In a report published by the Royal Society for Public Health in the UK, it found that 55% of people felt more stressed as a result of their commute. Snacking habits also increased and with less free time available, the report also found that workers were leading less active and healthy lifestyles. In a 2014 study by PGI, a leading provider of software services, it found that 80% of remote workers reported higher morale, 82% said it helped lower their stress levels, and 69% reported lower absenteeism. <https://www.forbes.com>

1. Why does the author support the idea of "working from home"?
  - I. It allows the older generation to remain in the workforce.
  - II. It enhances the productivity of the workers as it saves them from social distractions.
  - III. It cuts down the compensation cost of the employer.

A. Only I  
B. Only II  
C. Both I and II  
D. Both II and III  
E. All of these
2. How does working through telecommunication ensure the personal wellbeing of the employees?
  - I. By providing them time to cater to their psychological wellness.
  - II. It facilitates speedy recovery from any physical illness.
  - III. It compromises with the overall professional productivity of an employee.

A. Both II and III  
B. Both I and II  
C. Only II  
D. Only I  
E. All of these

3. Which of the following statement is false with reference to the passage?
  - A. The productivity of people who are not feeling well declines if they attend office.
  - B. Telecommuting can be a way to reduce the carbon footprint.
  - C. People working in the traditional office environment are highly unproductive.
  - D. Work from home helps lower stress level and absenteeism.
  - E. None of the above.
4. What does the author mean by the phrase, "No longer is remote work about working on a beach..."?
  - A. Work is conducted seriously while working from home.
  - B. Earlier, the idea of remote work included working from holiday locations.
  - C. Earlier, the concept of remote working lacked popularity.
  - D. Remote working provides the scope of holidaying while managing work.
  - E. None of the above
5. Which of the following is the MOST SIMILAR in meaning to the given word?
 

Optimize

  - A. Malign
  - B. Accurate
  - C. Eliminate
  - D. Approve
  - E. None of the above

**Direction (6 – 10):** Rearrange the following five sentences (A), (B), (C), (D), and (E) in a proper sequence to form a meaningful paragraph; then answer the questions given below them.

- A) And people like the Indian President and Prime Minister get 3 cents and 1 cent respectively.
- B) Sachin Tendulkar, arguably India's best-ever cricket player, earns some \$30 a minute.
- C) India's highest-paid CEO, Mukesh Ambani of Reliance Industries, gets \$10, and celluloid superstar Amitabh Bachchan, \$8.
- D) That makes it tempting to assume that the business of cricket must be huge and thriving, too.
- E) But even if you ignore the

6. Which of the following should be the FIRST sentence after rearrangement?
  - A. B
  - B. D
  - C. A
  - D. C
  - E. E
7. Which of the following should be the THIRD sentence after rearrangement?
  - A. B
  - B. D
  - C. A
  - D. C
  - E. E
8. Which of the following should be the FIFTH sentence after rearrangement?
  - A. B
  - B. D
  - C. A
  - D. C
  - E. E
9. Which of the following should be the SECOND sentence after rearrangement?
  - A. B
  - B. D
  - C. A
  - D. C
  - E. E
10. Which of the following should be the FOURTH sentence after rearrangement?
  - A. B
  - B. D
  - C. A
  - D. C
  - E. E

**Direction:** In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E), i.e., 'No correction required'.

11. The government has proposed changes in planning laws to ensure that nature conservation agencies and planning authorities **allow of** the directives.
  - A. abide by
  - B. ask for
  - C. aim at
  - D. act for
  - E. No correction required.

**Direction:** In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B),

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(C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E), i.e., 'No correction required'.

12. Odysseus thought that it was still possible that the Greek army could **muscle in** the crisis in the war.  
 A. muscle into  
 B. muddle up  
 C. muddle through  
 D. muscle out  
 E. No correction required.

**Direction:** In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E), i.e., 'No correction required'.

13. By the end of this year, California will completely **book in** from its 5-year-long recession.  
 A. bounce into  
 B. bounce back  
 C. box in  
 D. box up  
 E. No correction required.

**Direction:** In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given sentence is correct, your answer is (E), i.e., 'No correction required'.

14. The book was libellous, so the publishers had to **call upon** all copies of it from the bookshops.  
 A. call for            B. call forth  
 C. call in            D. call on  
 E. No correction required

**Direction:** In the given question, a part of the sentence is printed in bold. Below the sentence alternatives to the bold part are given at (A), (B), (C) and (D) which may help improve the sentence. Choose the correct alternative. In case the given

sentence is correct, your answer is (E), i.e., 'No correction required'.

15. You can no longer **brush up** the argument that the system is a sort of economic straitjacket, one that is becoming increasingly onerous.  
 A. bring up            B. bring over  
 C. bring back        D. brush off  
 E. No correction required

**Direction:** In this question, two **columns I and II** and three sentences are given, which are divided into two parts. **Column I (A, B and C)** consists of the first half of each sentence and **Column II (D, E and F)** consists of the second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct. Choose the relevant option as your answer.

16. I.  
 A) There seems to be no drop in the form  
 B) The hatred that both countries have for each other  
 C) In his salad days, my grandfather was  
 II.  
 D) seems to have amplified after the recent incident.  
 E) Have been the best motorcycle in Germany.  
 F) Of Ronaldo after the World Cup.  
 A. C-E and A-D  
 B. B-D  
 C. A-F, C-D and B-E  
 D. A-F and B-D  
 E. C-D

**Direction:** In this question, two **columns I and II** and three sentences are given, which are divided into two parts. **Column I (A, B and C)** consists of the first half of each sentence and **Column II (D, E and F)** consists of the second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct. Choose the relevant option as your answer.

17. I.  
 A) Both companies were targeting

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- B) My uncle had a dog, who  
 C) Strategic missiles represents a logical step  
 II.  
 D) From a car company.  
 E) Students from college who were in their early twenties.  
 F) In the attempt to attack enemy forces at a distance.  
 A. A-D and C-E  
 B. C-E and B-F  
 C. A-E  
 D. A-E, B-D and C-F  
 E. C-D

**Direction:** In this question, two columns I and II and three sentences are given, which are divided into two parts. **Column I (A, B and C)** consists of the first half of each sentence and **Column II (D, E and F)** consists of the second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct. Choose the relevant option as your answer.

18. I.  
 A) Selfish politicians should never make it  
 B) Being rich doesn't guarantee you  
 C) There are apps that calculate the range of your electric car,  
 II.  
 D) Usually in the form of a circle on a map showing the approximate range.  
 E) Goes to the backseat of the car.  
 F) There was still and attempt made.  
 A. C-D  
 B. B-D and A-F  
 C. A-E, B-D and C-F  
 D. C-F  
 E. B-D and C-E

**Direction:** In this question, two columns I and II and three sentences are given, which are divided into two parts. **Column I (A, B and C)** consists of the first half of each sentence and **Column II (D, E and F)** consists of the second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and

grammatically correct. Choose the relevant option as your answer.

19. I.  
 A) The entire experience of using electric  
 B) The dog was chasing a squirrel  
 C) Despite all the efforts  
 II.  
 D) Of having to live with that.  
 E) Someone needs to tell him.  
 F) mobility should be much more convincing.  
 A. A-D  
 B. C-F and B-E  
 C. A-D, B-E and C-F  
 D. A-F  
 E. A-E and C-D

**Direction:** In this question, two columns I and II and three sentences are given, which are divided into two parts. **Column I (A, B and C)** consists of the first half of each sentence and **Column II (D, E and F)** consists of the second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct. Choose the relevant option as your answer.

20. I.  
 A) Some men are not interested in  
 B) There were ample reasons why you  
 C) There is no statute that specifically states that texting  
 II.  
 D) can be treated on a par with criminal negligence.  
 E) Playing football as they find it a risky sport.  
 F) It was meant to be.  
 A. A-D, B-E and C-F  
 B. B-D and A-F  
 C. A-E and C-D  
 D. C-D  
 E. A-E

**Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank appropriately.

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21. Usually, when the local festival is a week away, the number of customers in the shop \_\_\_\_\_.
- A. Will have increased
  - B. Has increasing
  - C. Will be increased
  - D. Increases
  - E. Increased

**Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank appropriately.

22. You will have to undergo a \_\_\_\_\_ of tests before the interview.
- A. large
  - B. series
  - C. design
  - D. booklet
  - E. delegation

**Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank appropriately.

23. One has to be very \_\_\_\_\_ during the monsoons as the roads become slippery.
- A. Smart
  - B. Cautious
  - C. Presentable
  - D. Prepare
  - E. Healthy

**Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank appropriately.

24. The judge used his \_\_\_\_\_ in settling the matter.
- A. Know
  - B. Tactics
  - C. Discretion
  - D. Brains
  - E. Bias

**Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank appropriately.

25. The Board members could not arrive at a unanimous \_\_\_\_\_ on the issue.
- A. Judgement
  - B. Progress
  - C. Policy
  - D. Dissent
  - E. Action

**Direction:** In the given sentence, some words are printed in bold, one of which may be wrongly spelt or inappropriate in the context. Choose that word as the answer. If all the words printed in bold are correct, mark E, i.e. 'All are correct' as the answer.

26. The protagonist wanted to **unearth** the **marvellous** power which magnetized the needle and **supervised** a thousand **celesial** observations.
- A. unearth
  - B. marvellous
  - C. supervised
  - D. celesial
  - E. All are correct

**Direction:** In the given sentence, some words are printed in bold, one of which may be wrongly spelt or inappropriate in the context. Choose that word as the answer. If all the words printed in bold are correct, mark E, i.e. 'All are correct' as the answer.

27. We can ensure more **business** investment in the **region** if we have laws which **guarantee** property **rites**.
- A. business
  - B. region
  - C. guarantee
  - D. rites
  - E. All are correct

**Direction:** In the given sentence, some words are printed in bold, one of which may be wrongly spelt or inappropriate in the context. Choose that word as the answer. If all the words printed in bold are correct, mark E, i.e. 'All are correct' as the answer.

28. Unless more **information** is collected, the police will not **reveal** the details of the **altercution** between the arresting officer and the **suspect**.
- A. information
  - B. reveal
  - C. altercution
  - D. suspect
  - E. All are correct

**Direction:** In the given sentence, some words are printed in bold, one of which may be wrongly spelt or

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inappropriate in the context. Choose that word as the answer. If all the words printed in bold are correct, mark E, i.e. 'All are correct' as the answer.

29. Considering the **fact** that Indians have **outsed** the non-natives almost always, it is not **flawed** to state that the nation will remain integrated till the kingdom come.
- A. fact                      B. outsed  
C. flawed                    D. conjointly  
E. All are correct

**Direction:** In the given sentence, some words are printed in bold, one of which may be wrongly spelt or inappropriate in the context. Choose that word as the answer. If all the words printed in bold are correct, mark E, i.e. 'All are correct' as the answer.

30. He was famous not only for his interest in **schemes** for the **allevation** of poverty in Moscow, but also as the **founder** of new churches and **monasteries**.
- A. schemes  
B. allevation  
C. founder  
D. monasteries  
E. All are correct

**Direction:** What value will come in place of the question mark (?) in the following question?

31.  $?^2 + (9^2 + 34) \div 5 = 39$
- A. 16                      B. 2  
C. 4                        D. 6  
E. 8

**Direction:** What value will come in place of the question mark (?) in the following question?

32.  $6 \times 16 \times 5 \div 3 - ?^2 = 96$
- A. 4                        B. 8  
C. 16                      D. 32  
E. None of these

**Direction:** What value will come in place of the question mark (?) in the following question?

33.  $\sqrt{(124 + ? + 169)} = 18$

- A. -4                      B. 68  
C. 32                      D. 31  
E. 961

**Direction:** What value will come in place of the question mark (?) in the following question?

34.  $28^2 - ?^3 = 7^3 + 225$
- A. 6                        B. 12  
C. 18                      D. 24  
E. 7

**Direction:** What value will come in place of the question mark (?) in the following question?

35.  $298 - 13^2 - 2^3 = ? \times 11$
- A. 12                      B. 10  
C. 13                      D. 11  
E. 9

**Direction:** What value will come in place of the question mark (?) in the following question?

36.  $?% \text{ of } 300 + 16 = 81 + \sqrt{49}$
- A. 24                      B. 36  
C. 25                      D. 21  
E. None of these

**Direction:** What value will come in place of the question mark (?) in the following question?

37.  $4/7 \text{ of } 21/32 \text{ of } ? = 81 \times 12$
- A. 2592                    B. 2468  
C. 3294                    D. 2672  
E. None of these

**Direction:** What value will come in place of the question mark (?) in the following question?

38.  $50\% \text{ of } X + 3 \times 40 = 220$
- A. 100                    B. 200  
C. 150                    D. 175  
E. 250

**Direction:** What value will come in place of the question mark (?) in the following question?

39.  $33(1/3)\% \text{ of } ? + 32 \times 42 = 35 \times 84$
- A. 4788                    B. 4690  
C. 4566                    D. 4285  
E. None of these

**Direction:** What value will come in place of the question mark (?) in the following question?

40.  $(?)^2 + 473 = 24 \times 43 - 66.66\%$  of 501  
 A. 14                      B. 15  
 C. 225                     D. 196  
 E. None of these

**Direction:** What should come in place of the question mark '?' in the following number series?

41. 200, 193, 179, 158, ?, 95  
 A. 128                      B. 116  
 C. 108                     D. 126  
 E. 130

**Direction:** What should come in place of the question mark '?' in the following number series?

42. 3, 43, 81, 115, 143, ?  
 A. 160                      B. 158  
 C. 163                     D. 155  
 E. 153

**Direction:** What should come in place of the question mark '?' in the following number series?

43. 1, 6, 25, 76, 153, ?  
 A. 150                      B. 144  
 C. 154                     D. 165  
 E. 158

**Direction:** What should come in place of the question mark '?' in the following number series?

44. 50, 54, 45, 61, 36, ?  
 A. 70                        B. 72  
 C. 75                        D. 78  
 E. 80

**Direction:** What should come in place of the question mark '?' in the following number series?

45. 9, 45, 180, 540, ? 1080  
 A. 1080                    B. 1050  
 C. 1020                    D. 1120  
 E. 980

**Direction:** In the following table four persons P,Q,R and S are selling items on different days of week.

	P	Q	R	S
Saturday	45	40	25	20
Sunday	40	55	48	25
Monday	25	20	15	41
Tuesday	35	45	42	39

46. What was the ratio of item sold by P on Saturday & items sold by Q on Sunday?

- A. 9:11                      B. 10:13  
 C. 8:11                     D. 9:13  
 E. None of them

47. Items sold by P on Tuesday is what percent of item sold by S on Sunday?

- A. 140%                    B. 130%  
 C. 120%                    D. 125%  
 E. None of these

48. What is the average of the items sold by P, Q and S on Monday, Tuesday and Saturday respectively?

- A. 33                        B. 35  
 C. 28                        D. 30  
 E. None

49. Find the ratio of item sold by P on Saturday and Sunday to item sold by S on Monday & Tuesday?

- A. 17:16                    B. 14:11  
 C. 16:17                    D. 17:15  
 E. None of these

50. Q sold certain items on Wednesday which was 80% of the total items sold by Q on Saturday and Sunday both. find the items sold by Q on Wednesday.

- A. 86                        B. 66  
 C. 76                        D. 56  
 E. None of these

51. A sum becomes 5 times of itself on simple interest in 5 years. What is the rate of interest?

- A. 100%                    B. 80%  
 C. 40%                     D. 20%  
 E. 60%

52. A passenger train that runs at the speed of 78 km/h leaves the station 8 hours after the goods train left and overtakes it is 5 hours. What is the speed of goods train?

- A. 15 km/h                B. 30 km/h  
 C. 60 km/h                D. 13 km/h  
 E. 72 km/h

53. In a class of 40 students, the number of boys is 4 more than the number of girls. The average weight of the entire class is 48.4 KGs. If the average weight of girls is 44 KGs, what is the average weight of boys?

- A. 50 kg                    B. 51 kg  
 C. 52 kg                    D. 53 kg  
 E. None of these



54. Sum of the speed of the boat in upstream and downstream is 36km/h. The speed of the stream is 3km/h. find the time taken to cover the 52.5 km upstream, assume the speed of the boat in still water is constant throughout.  
 A. 3 hours      B. 4 hours  
 C. 3.5 hours    D. 4.5 hrs  
 E. None of these
55. A man invested 15% of his monthly income in LIC and the remaining amount gave to his mother. Her mother spent 10% of it in household expenditure and thus she saved Rs.30,600, then find the monthly salary of the man.  
 A. 41500      B. 42800  
 C. 43400      D. 40000  
 E. None of these
56. In a city, 68% population is literate in which the ratio of the number of males and the number of females is 11:6. And if the number of illiterate males to the number of illiterate females ratio is 3:1. Find the ratio of literate female to illiterate female.  
 A. 1:3      B. 2:1  
 C. 3:1      D. 2:3  
 E. None of these
57. A is 1.5 times more efficient than B and C is two times efficient than A. A and B take  $7\frac{1}{2}$  days to complete the work. How many days will B & C take to complete the work together?  
 A.  $4\frac{1}{6}$  days    B.  $5\frac{2}{3}$  days  
 C.  $5\frac{5}{6}$  days    D.  $3\frac{5}{6}$  days  
 E. None of these
58. In an exam if 7 marks given for right Answer and 4 marks deducted for wrong Answer and total marks given to a student is 263, then how many right Answer given by student if total attempts is 58?  
 A. 44      B. 45  
 C. 42      D. 40  
 E. None of these
59. The difference between Circumference of circle A and diameter is 90 cm. If Radius of Circle B is 7 cm less than A then find area of Circle B?  
 A.  $616\text{ cm}^2$       B.  $308\text{ cm}^2$   
 C.  $77\text{ cm}^2$       D.  $49\text{ cm}^2$   
 E. None of these
60. The ratio of the principal and the final amount is 5:8 on simple interest in 5 years. What is the rate of interest?  
 A. 8%      B. 12%  
 C. 24%      D. 15%  
 E. 30%
- Direction (61 – 65):** In the following question, there are two equations. Solve the equations and answer accordingly:
61. **I.**  $x^2 = 196$   
**II.**  $y^2 - 26y + 169 = 0$   
 A. If  $X > Y$       B. If  $X < Y$   
 C. If  $X \geq Y$       D. If  $X \leq Y$   
 E. If  $X=Y$  or No relation can be established
62.  $2x^2 - 7x + 5 = 0$   
 $2y^2 + 4y - 6 = 0$   
 A. If  $X > Y$       B. If  $X < Y$   
 C. If  $X \geq Y$       D. If  $X \leq Y$   
 E. If  $X=Y$  or No relation can be established
63.  $x^3 = 343$   
 $y^2 - 196 = 0$   
 A. If  $X > Y$       B. If  $X < Y$   
 C. If  $X \geq Y$       D. If  $X \leq Y$   
 E. If  $X=Y$  or No relation can be established
64.  $x^2 - 5x + 4 = 0$   
 $4y^2 - 7y + 3 = 0$   
 A. If  $X > Y$       B. If  $X < Y$   
 C. If  $X \geq Y$       D. If  $X \leq Y$   
 E. If  $X=Y$  or No relation can be established
65.  $3x^2 + 18x + 24 = 0$   
 $2y^2 - 11y + 15 = 0$   
 A. If  $X > Y$       B. If  $X < Y$   
 C. If  $X \geq Y$       D. If  $X \leq Y$   
 E. If  $X=Y$  or No relation can be established
- Direction (66 – 69):** Read the given information and answer the question that follows.  
 7 people P, Q, R, S, T, V, and W give a test starting from Monday to Sunday. 4 people give the test between R and S. P gives the test on Wednesday. No person gives the test between P and Q. There are 3 people who give the test between T and V. T gives the test before V. W does not give the test on Sunday. At least 2 people give the test before S.

66. How many people attempt the test after R?  
 A. 1                      B. 5  
 C. 3                      D. 4  
 E. None
67. Who gives the test on Sunday?  
 A. P                      B. R  
 C. S                      D. Q  
 E. V
68. Which of the following statement is false?  
 A. Q gives the test on Thursday.  
 B. P gives the test before S.  
 C. Three people give the test between W and R.  
 D. V gives the test after S.  
 E. All of the above are false.
69. W gives the test in which of the following days?  
 A. Monday              B. Tuesday  
 C. Thursday            D. Friday  
 E. Saturday
70. How many pairs of letters are there in the word UNSETTLED, each of which has as many letters between (in both forward and backward direction) them in the word as they have between them in the English alphabet?  
 A. One                    B. Two  
 C. Three                D. More than three  
 E. None

**Direction (71 – 74):** The question consists of some statements followed by some conclusions. Consider the statements to be true even if they are in variance with the commonly known facts. Read all the conclusions and decide which of the given conclusions logically follow from the given statements and accordingly mark your answer.

71. **Statements:**  
 All Bikes are Car  
 Some Car are Truck  
**Conclusions:**  
 I. Some Bike are Truck  
 II. No Truck is Car  
 A. Only conclusion I follow.  
 B. Neither conclusion I nor II follows.  
 C. Both conclusions I and II follow.  
 D. Either conclusion I or II follows.  
 E. Only conclusion II follows.

72. **Statements:**  
 Some Toffee are eclairs  
 All eclairs are dairy-milk.  
 Some dairy-milk are choc-bar.  
**Conclusions:**  
 I. At least some eclairs are dairy-milk.  
 II. No Toffee is choc-bar.  
 A. Only conclusion I follows.  
 B. Neither conclusion I nor II follows.  
 C. Both conclusions I and II follow.  
 D. Either conclusion I or II follows.  
 E. Only conclusion II follows.
73. **Statements:**  
 Some box are Table  
 No table is board.  
 Some board are wall.  
**Conclusions:**  
 I. Some board are box.  
 II. No box is board.  
 A. Only conclusion I follow.  
 B. Neither conclusion I nor II follows.  
 C. Both conclusions I and II follow.  
 D. Either conclusion I or II follows.  
 E. Only conclusion II follows.
74. **Statements:**  
 Some Toffee are eclairs  
 All eclairs are dairy-milk.  
 Some dairy-milk are choc-bar.  
**Conclusions:**  
 I. Some choc-bar being toffee is a possibility.  
 II. No Toffee is dairy-milk.  
 A. Only conclusion I follow.  
 B. Neither conclusion I nor II follows.  
 C. Both conclusions I and II follow.  
 D. Either conclusion I or II follows.  
 E. Only conclusion II follows.

**Direction (75 – 79):** Study the following information to answer the given questions.  
 Twelve people are sitting in two parallel rows containing six people each, in such a way that there is an equal distance between adjacent persons. In row-1 A, B, C, D, E and F are seated and all of them are facing south. In row-2 P, Q, R, S, T and V are seated and all of them are facing north. Therefore, in the given seating arrangement each member seated in a row faces another member of the

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other row.  
 V sits third to the right of S. S faces F and F does not sit at any of the extreme ends of the line. D sits third to the right of C. R faces C. The one who is facing E sits third to the right of P. B and P do not sit at the extreme ends of the line. T is not an immediate neighbour of V and A is not an immediate neighbour of C. R does not sit at the extreme end.

75. Who amongst the following faces D?  
 A. T                      B. P  
 C. Q                      D. R  
 E. None of these
76. Who amongst the following represent the people sitting at the extreme ends of the rows?  
 A. R, F                      B. T, A  
 C. D, R                      D. C, Q  
 E. S, A
77. Four of the following five are alike in a certain way and thus form a group. Which is the one that does not belong to that group?  
 A. B-T                      B. A-Q  
 C. C-S                      D. F-P  
 E. D-R
78. Four of the following five are alike in a certain way and thus form a group. Which is the one that does not belong to that group?  
 A. D                      B. S  
 C. V                      D. T  
 E. A
79. How many persons are seated between R and T?  
 A. ONE                      B. TWO  
 C. THREE                      D. FOUR  
 E. None of these

**Direction (80 – 84):** Study the information given below and answer the questions based on it. Eight friends, P, Q, R, S, T, Y, V, and W are sitting around a square table in such a way that four of them sit at four corners of the square, while four sit in the middle of each of the four sides. The ones who sit at the four corners face the centre, while those who sit in the middle of the sides face outside.

\* P who faces the centre sits third to the right of V.

\* T, who faces the centre, is not an immediate neighbour of V.  
 \* Only one person sits between V and W.

\* S sits second to the right of Q, Q faces the centre.

\* R is not an immediate neighbour of P.

80. Who sits second to the left of Q?  
 A. V                      B. P  
 C. T                      D. Y  
 E. W
81. What is the position of T with respect to V?  
 A. Fourth to the left  
 B. Second to the left  
 C. Third to the left  
 D. Third to the right  
 E. Second to the right
82. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?  
 A. R                      B. W  
 C. V                      D. S  
 E. Y
83. Which of the following will come in place of the question mark (?) based upon the given seating arrangement? WP TR QW RS ?  
 A. YT                      B. VY  
 C. VQ                      D. PY  
 E. QV
84. Which of the following is true regarding R?  
 A. R is an immediate neighbor of V  
 B. R faces the centre  
 C. R sits exactly between T and S  
 D. Q sits third to left of R  
 E. None is true

**Direction (85 – 87):** Read the given information and answer the question that follows.  
 E is 10 Km to the west of I. C is 5 Km to the south of E. A is 15 km to the east of C. F is 10 km to the west of H. B is 5 km to the west of A. H is 5 km to the north of E. D is 15 km to the west of C. G is 5 km to the west of F.

85. Which of the following are not sitting in a straight line?

- A. HEC                      B. CBA  
C. IFC                        D. GFH  
E. DCB
86. What is the direction of G with respect to A?  
A. South  
B. North  
C. North – West  
D. South – West  
E. South – East
87. B is in which direction with respect to C and at what distance?  
A. 10 km, West  
B. 5 km, East  
C. 10km, East  
D. 5 km, West  
E. none of the above

**Direction (88 – 90):** Study the information given below and answer the questions based on it. Six persons M, N, O, P, Q and R have different heights. N is taller than P. M is taller than R but shorter than P. At least one person is shorter than R. The number of people taller than Q is same as shorter than O. Q is taller than M.

88. How many persons are taller than Q?  
A. 0                              B. 1  
C. 2                              D. 3  
E. 4
89. Who among the following is the shortest in the group?  
A. O                              B. R  
C. P                              D. N  
E. Q
90. Who among the following is taller than N?  
A. P                              B. R  
C. M                              D. Q  
E. O

**Direction (91 – 95):** Read the given information and answer the question that follows. Seven friends are visiting seven different cities namely, Jhansi, Delhi, Ooty, Shimla, Amritsar, Lucknow, and Bhuvneshwar but not necessarily in the same order. The one who visits Jhansi is immediately above the one who visits Lucknow. There are only two persons between the one who visits Amritsar

and the one who visits Jhansi. The one who visits Ooty is above Amritsar but not immediately above the one who visits Amritsar. Only three persons are between the one who visits Shimla and the one who visits Ooty. The one who visits Bhuvneshwar is immediately above the one who visits Shimla. Only one person is there between the one who visits Delhi and the one who visits Bhuvneshwar.

91. How many people are visiting between the one who visits Ooty and the one who visits Bhuvneshwar?  
A. One                              B. Two  
C. Three                              D. Four  
E. None
92. Which of the following city is visited immediately before Delhi?  
A. Ooty                              B. Amritsar  
C. Delhi                              D. Bhuvneshwar  
E. None
93. Which of the following cities are there between Jhansi and Amritsar?  
A. Shimla, Bhuvneshwar  
B. Ooty, Shimla  
C. Lucknow, Delhi  
D. Lucknow, Ooty  
E. None of these
94. Which of the following condition is correct regarding Amritsar with respect to Bhuvneshwar?  
A. There is one city between Bhuvneshwar and the one who visits Amritsar  
B. Bhuvneshwar is immediately above the one who visits Amritsar  
C. All the above are true  
D. The one who visits Amritsar is the person immediately above Bhuvneshwar  
E. None of these
95. Which of the following cities is there exactly between Delhi and Jhansi?  
A. Amritsar                              B. Ooty  
C. Shimla                              D. Lucknow  
E. None of these

**Direction (96 – 100):** The questions are based on the five three- letter word given below.

NKT BEA DNU ICN GLP

96. If all the letters in the words are arranged in reverse alphabetical order and then after all the word are arranged in alphabetical order from left to right, then which of the following word is 2<sup>nd</sup> from the right end thus formed?  
A. PLG                      B. UND  
C. TNK                      D. NIC  
E. None of these
97. In each word every consonant is changed to the previous letter in English alphabetical series then how many words have at least single vowels?  
A. One                      B. Two  
C. Three                      D. Four  
E. None of these
98. In each of the word if we interchange the first letter with third, then the first letter with the second one, then which of the following is the third word according to English dictionary (answer in terms of original word)?  
A. NKT                      B. BEA  
C. DNU                      D. ICN  
E. None of these
99. If we interchange second letter with third and then first letter with third letter then what will be the value if we add all the place values of first letter in each word thus formed?  
A. 30                      B. 35  
C. 40                      D. 45  
E. None of these
100. If we add all the letters place value in each word then which of the following word number is completely divisible by 9?  
A. BEA                      B. NKT  
C. DNU                      D. ICN  
E. None of these

Gradeup

## ANSWERS

1. Ans. B.

According to the first paragraph of the passage, "From **distractions like water cooler gossip** to excessive commuting, health problems and more. Workers are finding it harder than ever to hit maximum productivity in a traditional office work environment." This indicates that working in an office impedes the productivity of an employer as they often waste time on socialising. Thus, alternative II is the most appropriate answer.

The alternatives I and III and are not stated in the passage and can be eliminated.

Note: The passage is solely concerned with the productivity of an employee as stressed in, 'It is estimated that employers in the US lose \$1.8 trillion a year in productivity'. 'Compensation cost of the employer' is the amount given by the employer to the employee as wages. It does not cover the costs incurred by the company in other domains such as productivity, operations etc.

2. Ans. B.

According to the second paragraph of the passage, "It (working from home) allows workers retain more of their time in the day and **adjust to their personal mental and physical well-being** needs that **optimize** productivity.... If you are ill, telecommuting allows one to **recover faster** without being forced to be in the office." Thus, work through telecommunication ensures personal as well mental wellbeing of an employee. Alternative III is incorrect as it says that the overall professional productivity of an employee is challenged by telecommunication, which is an incorrect fact.

3. Ans. C.

A - This is true from the line - "If our health is not in good condition...our productivity will also decline."

B - This is true from the line - "With the drive to reduce our carbon footprint, telecommuting .....to go green."

C - This is not true. Nowhere in the passage has it been specifically mentioned that people working in the

traditional office environment are highly unproductive. This will be the correct answer.

D - This is true from the last line - "it found that ... it helped lower their stress levels, and 69% reported lower absenteeism".

4. Ans. A.

Refer to the following lines from the first paragraph of the passage, "As more companies adopt telecommuting practices, the benefits are very clear. No longer is remote work about working on a beach, it's a complete design in how we approach the way we work." These lines imply that telecommunication allows remote working to be taken seriously as the tasks are properly designed and a defined approach is followed. Thus, the phrase, "No longer is remote work about working on a beach..." implies that remote working is no longer considered a fun business and work is taken seriously. Thus option A is the correct response.

5. Ans. E.

"Optimize" means to make the best or most effective use of (a situation or a resource).

Malign-  
defame  
None of the given options is similar in meaning to "optimize", thus, option E is the correct answer.

6. Ans. A.

Refer to the last question in the series.

7. Ans. C.

Refer to the last question in the series.

8. Ans. B.

Refer to the last question in the series.

9. Ans. D.

Refer to the last question in the series.

10. Ans. E.

The given passage compares various people with respect to the money they earn per minute. Here, we can start with B or C, but C does not specify the term, 'a minute', which is the basis of the comparison. So, the paragraph can only start with B. B will be followed by C, which talks about 2 other people. Now among A, D and E, A will be best suited to follow C as it mentions more people for comparison. Now between D and E, E takes the discussion ahead by continuing

to talk about the numbers. So, A will be followed by E. D will be the last sentence as it is more of a concluding remark about the comparison that is made in the paragraph. Thus, the sequence after rearrangement will be **BCAED**.

11. Ans. A.

The above sentence talks about the laws that have been proposed to be changed. The government proposed it to ensure that the conservation agencies and planning authorities follow the directives. Thus, 'abide by' will accurately fit in the sentence. To 'abide by' means to adhere to certain rules and principles. Therefore, option A is correct.

The meanings of other phrasal verbs are as follows:

Ask for: to request something.

Aim at: to point or to set the decision on someone or something.

Act for: to be representative or perform a role on someone's behalf.

Allow of: to show that something is possible.

12. Ans. C.

The given sentence talks about a war. 'Muddle through' means 'to get through a situation despite the lack of advantages'. The phrase can replace "muscle in" to make the sentence meaningful. Therefore, option C is the correct answer.

The meaning of other phrasal verbs are as follows:

Muscle into: to become involved in something when the involvement is not required

Muddle up: to take things that are ordered and to mess them up

Muscle out: to use power to force someone out

Muscle in: to get involved where it is not necessary

13. Ans. B.

The given sentence talks about the recession. The mention of it being five years long and the use of the preposition 'from' indicates that option B with 'bounce back' is the correct answer. It means 'to recover'. Therefore, option B is the correct answer.

The meanings of the other phrasal verbs are as follows:

Bounce into: to force something or someone.

Box in: to prevent something from moving.

Box up: to pack things in a box to move them.

Book in: to make a reservation in advance.

14. Ans. C.

If you 'call on' someone or 'call upon' them, you visit them or demand them to do something.

'Call forth' means to cause (something) to come into action or existence.

If you 'call for' something, you require it or publically ask for it.

'Call in' means to take (something) out of circulation.

If a statement in a book, newspaper, or magazine is libellous (defamatory), it might hurt sentiments and would be taken out of circulation. Hence, the correct answer is option C.

15. Ans. D.

In the given context it is clear that the reference to the economic straitjacket is being stated to be 'onerous' (difficult to endure) In this light, the phrasal verb that fits is 'brush off', as it tells that we can no longer deny or ignore, i.e., 'brush off' the aforementioned fact. The meanings of the other phrasal verbs are:

Bring up: to bring something from a lower place to higher, or to repeat a topic from the past.

Bring over: to bring something or someone from one place to another.

Bring back: usually means to return something that has been borrowed.

16. Ans. D.

A and F connect as the latter names the player performance has not deteriorated. B and D connect logically to make a coherent sentence.

C and E cannot connect as "was" cannot be followed by "have been". Thus, option D is the correct answer.

17. Ans. C.

A and E connect logically to indicate that who the companies were targetting. Segment C is grammatically incorrect as missiles is a plural noun and must take a plural verb. So "represents" must be changed to "represent". B cannot be connected with any of the segments mentioned in column II.

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18. Ans. A.

A and B cannot be connected with any of the segments mentioned in column II. C and D can be connected as C states that the calculations are made and D states in what form is it normally done.

19. Ans. D.

(B) and (C) do not connect with any of the segments in II. (A) ends with an adjective, and must be followed by a noun that would be modified by the adjective. (F) can, thus, follow (A).

20. Ans. C.

A and E connect logically to indicate what "some men" are not interested in and why.

C and D can be connected appropriately to convey a meaningful sense. A statute is a written law passed by a legislative body. Sentence formed by C and D expresses that there is no clear law which recognizes texting can be treated as seriously as something like criminal negligence.

21. Ans. D.

The use of the adverb, 'usually' indicates the requirement of simple present tense. The given sentence is in simple present tense and states a general fact, hence the latter half of the sentence with the blank will also be in the simple present tense. Since the subject in the latter part of the sentence is singular, i.e., 'the number', the verb 'increases' will follow accordingly.

Hence, option D is the correct answer. Note: The expression 'the number' is followed by a singular verb while the expression a number is followed by a plural verb.

22. Ans. B.

This needs to be attempted carefully. There is 'a' before the blank and plural 'tests' after the blank so the word in the blank should express a collective to make the sentence grammatically correct. Among the given options, only series fits in grammatically as well as contextually. 'A large of tests' doesn't make any sense. One doesn't undergo a design of tests or a booklet of tests or a delegation of tests. Hence, these are incorrect as well.

23. Ans. B.

'Cautious' can be used to make the sentence meaningful which means alert

or be careful. The context of the statement is that the monsoon is a bit troublesome due to slippery roads and need to be navigated with care. 'Prepare' uses the incorrect form of grammar. 'Smart' may appear to be correct, but we need to choose the most suitable response which in this case is 'cautious'. Hence, option B is the correct answer.

24. Ans. C.

To settle a dispute, one needs to have a sound decision-making ability to be able to judge both the sides. Also, a judge is a free body to decide upon any issue. 'Know' is a verb which means to be aware of through observation, inquiry, or information.

'Tactics' refer to an action or strategy carefully planned to achieve a specific end. A judge doesn't need tactics to make a judgment.

'Discretion' means the freedom to decide what should be done in a particular situation.

'Brains' refer to the intellectual capacity. 'Bias' means inclination or prejudice for or against one person or group, especially in a way considered to be unfair. Hence option C is the correct response.

25. Ans. A.

Judgement means the ability to make considered decisions or come to sensible conclusions.

Progress means advancement.

Policy means a strategy or an approach.

Dissent means lack of approval.

Action means activity.

The Board members are usually involved in making decisions/ judgements. "Unanimous" is an adjective which means (of two or more people) fully in the agreement. It can appropriately modify the noun 'judgement'. No other word except 'judgement' makes sense in the given context.

Hence, 'judgement' is the correct answer.

26. Ans. D.

Unearth = to discover.  
Wondrous = inspiring a feeling of wonder or delight; marvellous.  
Supervised = observe and direct the execution of (a task or activity).  
Celestial is the incorrectly spelt word. The



correct spelling is 'celestial', which means belonging to or relating to heaven.

Hence, option D is the correct answer.

27. Ans. D.

You will have a 'right' over a property and not 'rite'. "Rite" refers to a formal religious or public occasion and does not fit in the context of the given sentence.

Thus, option D is the correct answer.

28. Ans. C.

Altercution is the incorrectly spelt word.

It must be spelt as 'altercation'.

Altercation => a loud and heated disagreement.

Thus, option C is the correct answer.

29. Ans. B.

Fact = a thing that is known or proved to be true.

Flawed = having or characterized by a fundamental weakness or imperfection.

Conjointly = together, united

'Oused' is the incorrectly spelt word. The correct spelling is 'ousted' which means drive out or expel (someone) from a position or place.

Till kingdom come means forever.

Hence, option B is the correct answer.

30. Ans. B.

'Allevation' is the incorrectly spelt word.

The correct spelling is 'alleviation', which means the action or process of making suffering, deficiency, or a problem less severe.

Hence, option B is the correct answer.

31. Ans. C.

$$.?^2 + (9^2 + 34) \div 5 = 39$$

$$.?^2 + (115) \div 5 = 39$$

$$.?^2 + 23 = 39$$

$$.?^2 = 39 - 23$$

$$.?^2 = 16$$

$$.? = 4$$

32. Ans. B.

$$6 \times 16 \times 5 \div 3 - ?^2 = 96$$

$$160 - ?^2 = 96$$

$$.?^2 = 160 - 96 = 64$$

$$.? = 8$$

33. Ans. D.

$$\sqrt{(124 + ? + 169)} = 18$$

$$(124 + ? + 169) = 324$$

$$.? = 324 - (124 + 169)$$

$$.? = 31961$$

34. Ans. A.

$$28^2 - ?^3 = 7^3 + 225$$

$$28^2 - 7^3 - 225 = ?^3$$

$$784 - 343 - 225 = ?^3$$

$$.?^3 = 216$$

$$.? = 6$$

35. Ans. D.

$$298 - 13^2 - 2^3 = ? \times 11$$

$$298 - 169 - 8 = ? \times 11$$

$$121 = ? \times 11$$

$$.? = 11$$

36. Ans. A.

$$.? \% \text{ of } 300 + 16 = 81 + \sqrt{49}$$

$$.? \% \text{ of } 300 = 81 + 7 - 16 = 72$$

$$.? = 72 \times 100 / 300 = 24$$

37. Ans. A.

$$4/7 \text{ of } 21/32 \text{ of } ? = 81 \times 12$$

$$.? = 81 \times 12 \times (7/4) \times (32/21) = 2592$$

38. Ans. B.

$$50 \% \text{ of } X + 3 \times 40 = 220$$

$$50 \% \text{ of } X = 220 - 3 \times 40$$

$$X/2 = 100$$

$$X = 200$$

39. Ans. A.

$$33(1/3) \% \text{ of } ? + 32 \times 42 = 35 \times 84$$

$$33(1/3) \% \text{ of } ? = 35 \times 84 - 32 \times 42$$

$$.?/3 = 2940 - 1344 = 1596$$

$$.? = 3 \times 1596 = 4788$$

40. Ans. B.

$$(?)^2 + 473 = 24 \times 43 - 66(2/3) \% \text{ of } 501$$

66(2/3) % fractional equivalent is 2/3, so we can write it as:

$$(?)^2 + 473 = 1032 - (2/3) \times 501$$

$$(?)^2 + 473 = 698$$

$$(?)^2 = 698 - 473 = 225$$

$$.? = 15$$

41. Ans. E.

pattern like:

$$200 - 193 = 7$$

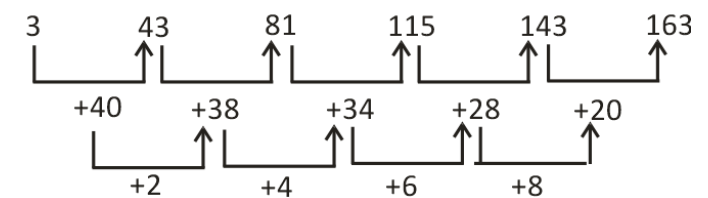
$$193 - 179 = 14$$

$$179 - 158 = 21$$

$$158 - \mathbf{130} = 28$$

$$\mathbf{130} - 95 = 35$$

42. Ans. C.



43. Ans. C.

$$1, 6, 25, 76, 153, ?$$

$$6 = 1 \times 5 + 1$$

$$25 = 6 \times 4 + 1$$

$$76 = 25 \times 3 + 1$$

$$153 = 76 \times 2 + 1$$

$$154 = 153 \times 1 + 1$$

so the missing term will be => 153 x 1 + 1

= **154**  
 1, 6, 25, 76, 153, **154**  
 44. Ans. B.  
 50, 54, 45, 61, 36, ?  
 +4, - 9, +16, -25,.....+36  
 so 50, 54, 45, 61, 36, **72**  
 45. Ans. A.  
 9, 45, 180, 540, ? 1080  
 $\times 5, \times 4, \times 3, \times 2, \times 1$   
 so 9, 45, 180, 540, **1080**, 1080  
 46. Ans. A.  
 sold P on Saturday=45  
 sold Q on Sunday=55  
 ratio= 45:55=9:11  
 47. Ans. A.  
 Items sold by P on Tuesday= 35  
 item sold by S on Sunday? = 25  
 $\% = (35/25) \times 100 = 140\%$   
 48. Ans. D.  
 average of the items sold by P, Q and S  
 on Monday, Tuesday and Saturday,  
 $= (25+45+20)/3=30$   
 49. Ans. A.  
 item sold by P on Saturday and Sunday  
 $= (45+40)=85$   
 item sold by S on Monday & Tuesday =  
 $(41+39)=80$   
 required ratio= 85: 80= **17:16**  
 50. Ans. C.  
 items sold by Q on Saturday and  
 Sunday= 40+55= 95  
 items on Wednesday by Q= 80% of 95=  
**76**  
 51. Ans. B.  
 If principal amount = 100  
 5 times in 5 year means total amount=  
 500  
 Simple interest earned in 5 years= 400  
 So the rate of interest=  $400/5=80\%$   
 52. Ans. B.  
 Let the speed of the goods train be=x  
 km/hr  
 So the distance traveled in 8 hr by goods  
 train= 8x km  
 Relative speed of both train in same  
 direction=  $(78- x)$  km/hr  
 So the distance traveled in 5 hr by  
 passenger train will be =  $5(78-x)$  km  
 So  $8x= 5(78-x)$   
 $x= \mathbf{30 \text{ km/hr}}$   
 53. Ans. C.  
 Number of girls=x  
 Boys= x+4  
 $x+x+4=40$   
 So girls= 18

Boys= 22  
 Apply alligation method for fast  
 calculations:  
 Girls(avg wt) Boys(avg wt)  
 44 ?  
**48.4**  
**18 : 22**  
**9 : 11**  
**so, ?=48.4 + (48.4-44)/(11\*9)=**  
**48.4+3.6=52 kg**  
 54. Ans. C.  
 Speed of boat=  
 $(\text{upstream}+\text{downstream})/2=18 \text{ km/hr}$   
 Upstream speed=  $18-3= 15 \text{ km/hr}$   
 Time taken to travel 52.5 km=  $52.5/15=$   
 3.5 hrs  
 55. Ans. D.  
 after 15%, remaining 85% amount man  
 gave to his mother.  
 she spend 10% of it= 10% of 85=8.5%  
 remaining amount=  $85-8.5= 76.5\%$   
 so 76.5% = 30600  
 so total 100%=  $30600/76.5 \times 100=$   
**40,000/-**  
 56. Ans. C.  
 literate %= 68%  
 male : female = 11:6 =  $68/(11+6) \times 11 :$   
 $68/(11+6) \times 6 = \mathbf{44\% : 24\%}$   
 illiterate % =  $100-68=32\%$   
 male : female= 3:1 =  $32/(3+1) \times 3 :$   
 $32/(3+1) \times 1 = \mathbf{24\% : 8\%}$   
 required ratio **literate female to**  
**illiterate female= 24 : 8 = 3:1**  
 57. Ans. E.  
 Efficiency of A is 1.5 time more than B,  
 so, efficiency ratio of A: B =  $(1+1.5) : 1$   
 $= 2.5 : 1 = 5:2$   
 efficiency ratio of A: C = 1 : 2 = 5:10  
 so efficiency ratio of A: B: C = 5:2:10  
 work completed by A & B in  $7(1/2)$   
 days=  $(5+2) \times 7(1/2)= 52(1/2)$  unit  
 time taken by B & C to complete this  
 work =  $52(1/2)/(2+10)=35/8=\mathbf{4(3/8)}$   
**days**  
 58. Ans. B.  
 let number of a question are correct.  
 so total marks obtained=  $7a - 4(58-a)=$   
 263  
 $11a=263+232=495$   
 $a=495/11=\mathbf{45}$   
 59. Ans. A.  
 Given,  
 $2P_{RA} - 2R_A = 90$   
 $\{(22/7)-1\}R_A = 45$   
 $R_A = 21 \text{ cm}$

$R_B = 21 - 7 = 14$  cm  
 Area of circle B =  $\pi (R_B)^2 = 22/7 \times 14 \times 14 = 616$  cm<sup>2</sup>  
 60. Ans. B.  
 Let the principal amount be  $5x$ , and final amount be  $8x$ .  
 So the interest earned will be =  $8x - 5x = 3x$   
 Using the formula,  $SI = P \cdot R \cdot T / 100$   
 $3x = (5x \cdot R \cdot 5) / 100$   
 Hence  $R = 12\%$   
 Other method:  
 Total interest in 5 year on principal amount is =  $(8 - 5) / 5 \times 100 = 60\%$   
 for 1 year rate of interest =  $60 / 5 = 12\%$   
 61. Ans. E.  
 $x^2 = 196$   
 $x = +14, -14$   
 $y^2 - 26y + 169 = 0$   
 $y = 13, 13$   
 so one value of  $x$  greater than  $y$  and other value less than  $y$   
 So, No relation can be established  
 62. Ans. C.  
 $2x^2 - 7x + 5 = 0$   
 $2x^2 - 2x - 5x + 5 = 0$   
 $2x(x - 1) - 5(x - 1) = 0$   
 $(x - 1)(2x - 5) = 0$   
 $x = 1, 5/2$   
 $2y^2 + 4y - 6 = 0$   
 $2y^2 + 6y - 2y - 6 = 0$   
 $2y(y + 3) - 2(y + 3) = 0$   
 $(2y - 2)(y + 3) = 0$   
 $y = 1, -3$   
 On comparing we get,  $x = y$  or  $x > y$   
 63. Ans. E.  
 $x^3 = 343$   
 $x = +7$   
 $y^2 - 196 = 0$   
 $y = +14, -14$   
 so one value of  $x$  less than  $y$  & other value greater than  $y$   
 No relation can be established  
 64. Ans. C.  
 $x^2 - 5x + 4 = 0$   
 factor directly calculate =  $+4$  &  $+1$   
 $x = +4$  &  $+1$   
 $4y^2 - 7y + 3 = 0$   
 factor directly calculate =  $+4/4$ ,  $+3/4$   
 $y = +1, +0.75$   
 If  $X \geq Y$   
 65. Ans. B.  
 $3x^2 + 18x + 24 = 0$   
 without calculating the factor we will determine only sign nature of factors

so factors will be in negative (direct observation)  
 $x = -x, -x$   
 same as  
 $2y^2 - 11y + 15 = 0$   
 $Y = +y, +y$   
 so  $X < Y$   
 66. Ans. B.  
 People: P, Q, R, S, T, V, and W  
 Monday to Sunday  
 1) P give the test on Wednesday.  
 2) No person give test between P and Q.

	Case - 1	Case - 2
Day	Person	Person
Monday		
Tuesday	Q	
Wednesday	P	P
Thursday		Q
Friday		
Saturday		
Sunday		

3) There are 3 people give test between T and V.  
 4) T gives the test before V.

	Case - 1	Case - (2 A)	Case - (2B)
Day	Person	Person	Person
Monday	T	T	
Tuesday	Q		T
Wednesday	P	P	P
Thursday		Q	Q
Friday	V	V	
Saturday			V
Sunday			

5) 4 people give test between R and S.  
 6) W does not give the test on Sunday.  
 7) At least 2 people give the test before S.  
 (Here case - 1 case - 2 (B) will get eliminated as 4 people between R and S is not possible.  
 (Now we will be left with only case - 2A)

	Case - (2 A)
Day	Person
Monday	T
Tuesday	R
Wednesday	P
Thursday	Q
Friday	V
Saturday	W
Sunday	S

Above combination will be the final combination.  
 Five people give test after R.  
 67. Ans. C.  
 People: P, Q, R, S, T, U, V, and W  
 Monday to Sunday  
 1) P give the test on Wednesday.

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2) No person give test between P and Q.

	Case - 1	Case - 2
Day	Person	Person
Monday		
Tuesday	Q	
Wednesday	P	P
Thursday		Q
Friday		
Saturday		
Sunday		

3) There are 3 people give test between T and V.

4) T gives the test before V.

	Case - 1	Case - (2 A)	Case - (2B)
Day	Person	Person	Person
Monday	T	T	
Tuesday	Q		T
Wednesday	P	P	P
Thursday		Q	Q
Friday	V	V	
Saturday			V
Sunday			

5) 4 people give test between R and S.

6) W does not give the test on Sunday.

7) At least 2 people give the test before S.

(Here case - 1 case - 2 (B) will get eliminated as 4 people between R and S is not possible.

(Now we will be left with only case - 2A)

	Case - (2 A)
Day	Person
Monday	T
Tuesday	R
Wednesday	P
Thursday	Q
Friday	V
Saturday	W
Sunday	S

Above combination will be the final combination.

S gives the test on Sunday.

68. Ans. D.

People: P, Q, R, S, T, U, V, and W  
Monday to Sunday

1) P give the test on Wednesday.

2) No person give test between P and Q.

	Case - 1	Case - 2
Day	Person	Person
Monday		
Tuesday	Q	
Wednesday	P	P
Thursday		Q
Friday		
Saturday		
Sunday		

3) There are 3 people give test between T and V.

4) T gives the test before V.

	Case - 1	Case - (2 A)	Case - (2B)
Day	Person	Person	Person
Monday	T	T	
Tuesday	Q		T
Wednesday	P	P	P
Thursday		Q	Q
Friday	V	V	
Saturday			V
Sunday			

5) 4 people give test between R and S.

6) W does not give the test on Sunday.

7) At least 2 people give the test before S.

(Here case - 1 case - 2 (B) will get eliminated as 4 people between R and S is not possible.

(Now we will be left with only case - 2A)

	Case - (2 A)
Day	Person
Monday	T
Tuesday	R
Wednesday	P
Thursday	Q
Friday	V
Saturday	W
Sunday	S

Above combination will be the final combination.

A) Q gives the test on Thursday. ⇒ True

B) P gives the test before S. ⇒ True

C) Three people give the test between W and R. ⇒ True

D) V gives the test after S. ⇒ False (as V gives the test before S)

69. Ans. E.

People: P, Q, R, S, T, U, V, and W  
Monday to Sunday

1) P give the test on Wednesday.

2) No person give test between P and Q.

	Case - 1	Case - 2
Day	Person	Person
Monday		
Tuesday	Q	
Wednesday	P	P
Thursday		Q
Friday		
Saturday		
Sunday		

3) There are 3 people give test between T and V.

4) T gives the test before V.

	Case - 1	Case - (2 A)	Case - (2B)
Day	Person	Person	Person
Monday	T	T	
Tuesday	Q		T
Wednesday	P	P	P
Thursday		Q	Q
Friday	V	V	
Saturday			V
Sunday			

- 5) 4 people give test between R and S.
- 6) W does not give the test on Sunday.
- 7) At least 2 people give the test before S.

(Here case - 1 case - 2 (B) will get eliminated as 4 people between R and S is not possible.

(Now we will be left with only case - 2A)

Case - (2 A)	
Day	Person
Monday	T
Tuesday	R
Wednesday	P
Thursday	Q
Friday	V
Saturday	W
Sunday	S

Above combination will be the final combination.

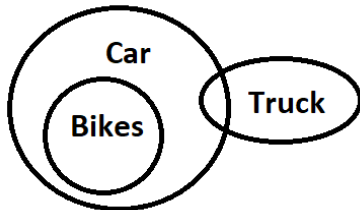
W gives the test on Saturday.

70. Ans. B.

There are two such pairs US and ED

71. Ans. B.

Venn diagram of given statements can be drawn as shown below,



**Conclusion:**

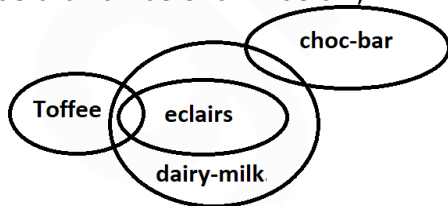
I. Some Bike are Truck ⇒ False (as it just a possibility but nothing is definite)

II. No Truck is Car ⇒ False

Hence, Neither conclusion I nor II follows.

72. Ans. A.

Venn diagram of given statements can be drawn as shown below,



**Conclusion:**

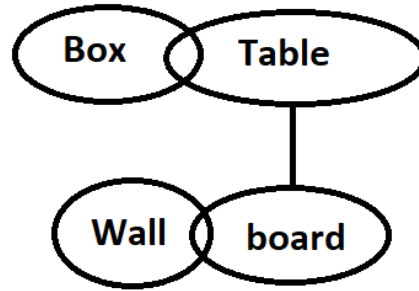
I. At least some eclairs are dairy-milk. ⇒ True

II. No Toffee is choc-bar. ⇒ False

Hence, Only conclusion I follows.

73. Ans. D.

Venn diagram of given statements can be drawn as shown below,



**Conclusion:**

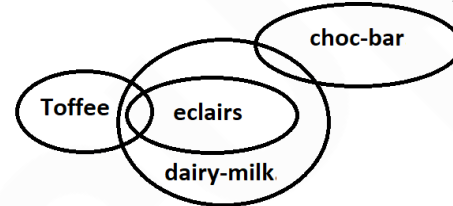
1) Some board are box. ⇒ False

2) No box is board. ⇒ False

Either I or II follows.

74. Ans. A.

**Venn diagram of given statements can be drawn as shown below,**



**Conclusion:**

I. Some choc-bar being toffee is a possibility. ⇒ True

II. No Toffee is dairy-milk.. ⇒ False

**Hence conclusion I follow.**

75. Ans. A.

- V sits third to right of S.
- S faces F and F does not sit at any of the extreme ends of the line.
- D sits third to right of C.
- R faces C.
- The one facing E sits third to right of P.
- B and P do not sit at the extreme ends of the line.
- T is not an immediate neighbour of V and A is not an immediate neighbour of C.

1 ↓ D B F C E A

2 ↑ T P S R Q V

T faces D

76. Ans. B.

- V sits third to right of S.
- S faces F and F does not sit at any of the extreme ends of the line.
- D sits third to right of C.
- R faces C.

- The one facing E sits third to right of P.
- B and P do not sit at the extreme ends of the line.
- T is not an immediate neighbour of V and A is not an immediate neighbour of C.

1 ↓ D B F C E A

2 ↑ T P S R Q V

T & A sitting at extreme ends of the rows

77. Ans. E.

- V sits third to right of S.
- S faces F and F does not sit at any of the extreme ends of the line.
- D sits third to right of C.
- R faces C.
- The one facing E sits third to right of P.
- B and P do not sit at the extreme ends of the line.
- T is not an immediate neighbour of V and A is not an immediate neighbour of C.

1 ↓ D B F C E A

2 ↑ T P S R Q V

D - R is the one that does not belong to that group.

78. Ans. B.

- V sits third to right of S.
- S faces F and F does not sit at any of the extreme ends of the line.
- D sits third to right of C.
- R faces C.
- The one facing E sits third to right of P.
- B and P do not sit at the extreme ends of the line.
- T is not an immediate neighbour of V and A is not an immediate neighbour of C.

1 ↓ D B F C E A

2 ↑ T P S R Q V

All other are facing each other hence S does not belong to that group.

79. Ans. B.

- V sits third to right of S.
- S faces F and F does not sit at any of the extreme ends of the line.
- D sits third to right of C.
- R faces C.
- The one facing E sits third to right of P.
- B and P do not sit at the extreme ends of the line.
- T is not an immediate neighbour of V and A is not an immediate neighbour of C.

1 ↓ D B F C E A

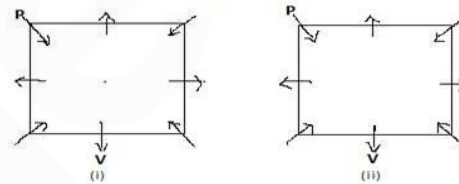
2 ↑ T P S R Q V

Two persons are seated between R and T

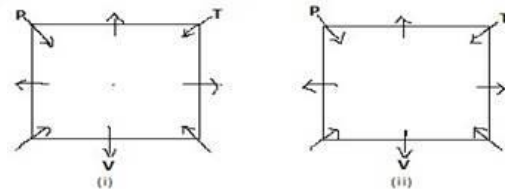
80. Ans. B.

First let us make two diagrams as per the information provided,

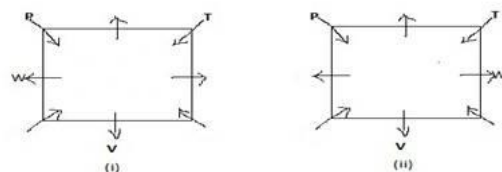
\*P who faces the centre sits third to the right of V.



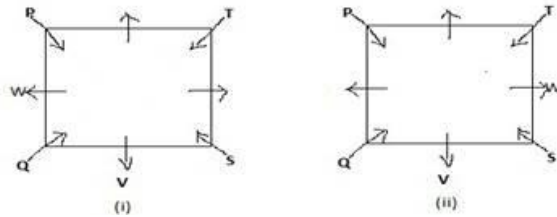
\* T, who faces the centre, is not an immediate neighbor of V.



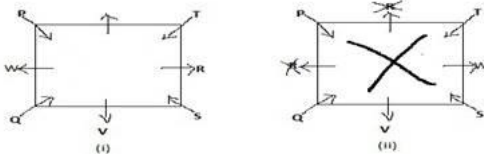
\* Only one person sits between V and W.



\* S sits second to right of Q, Q faces the centre.



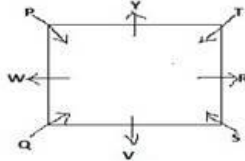
\* R is not an immediate neighbor of P.



Note:- As per the condition provided, there is no any position left to accommodate R in the diagram (ii), but he can be accommodated in the diagram (i). Therefore seating arrangement in the diagram (ii) proves to be wrong, so we'll rule it out.

Further, only one position is vacant in the arrangement in diagram (i), that will be accommodated by the remaining person i.e. Y.

Therefore, the final seating arrangement is as follows:

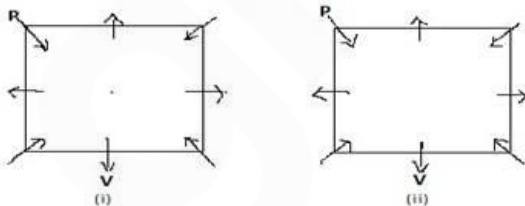


So, P sits second to the left of Q, and the Correct Answer is Option B.

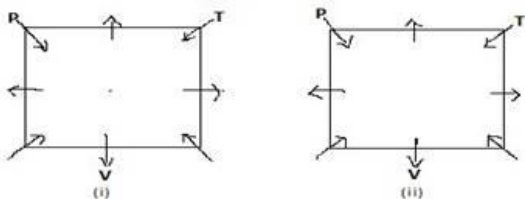
81. Ans. C.

First let us make two diagrams as per the information provided,

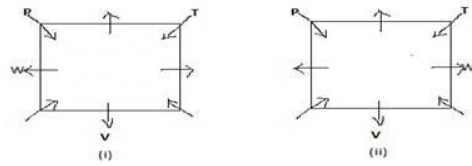
\*P who faces the centre sits third to the right of V.



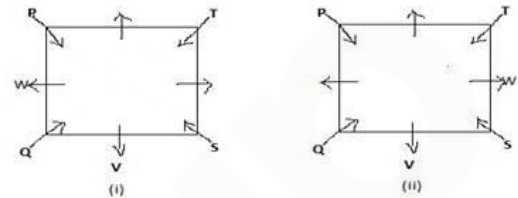
\* T, who faces the centre, is not an immediate neighbor of V.



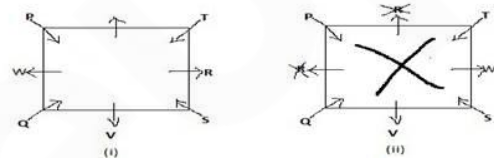
\* Only one person sits between V and W.



\* S sits second to right of Q, Q faces the centre.



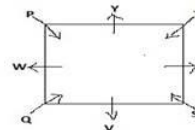
\* R is not an immediate neighbor of P.



Note:- As per the condition provided, there is no any position left to accommodate R in the diagram (ii), but he can be accommodated in the diagram (i). Therefore seating arrangement in the diagram (ii) proves to be wrong, so we'll rule it out.

Further, only one position is vacant in the arrangement in diagram (i), that will be accommodated by the remaining person i.e. Y.

Therefore, the final seating arrangement is as follows:

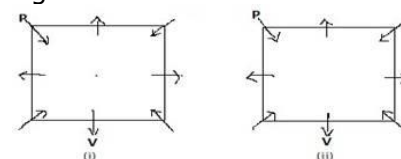


Clearly, T sits third to the left of V, and the Correct Answer is Option C.

82. Ans. D.

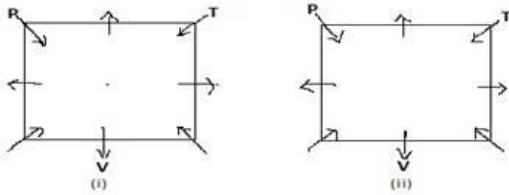
First let us make two diagrams as per the information provided,

\*P who faces the centre sits third to the right of V.

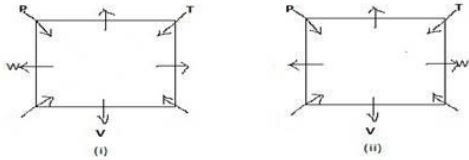


\* T, who faces the centre, is not an

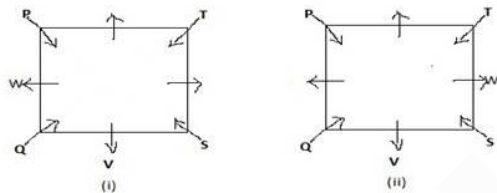
immediate neighbor of V.



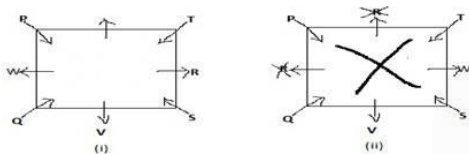
\* Only one person sits between V and W.



\* S sits second to right of Q, Q faces the centre.



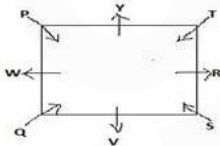
\* R is not an immediate neighbor of P.



Note:- As per the condition provided, there is no any position left to accommodate R in the diagram (ii), but he can be accommodated in the diagram (i). Therefore seating arrangement in the diagram (ii) proves to be wrong, so we'll rule it out.

Further, only one position is vacant in the arrangement in diagram (i), that will be accommodated by the remaining person i.e. Y.

Therefore, the final seating arrangement is as follows:



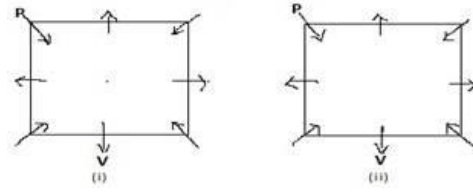
Clearly, Except S, other 4 persons face outside center, so the Correct Answer is Option D.

83. Ans. A.

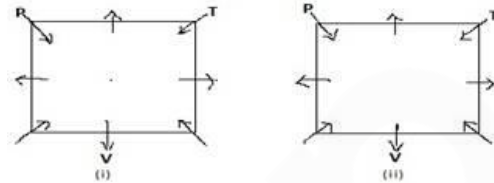
First let us make two diagrams as per the information provided,

\* P who faces the centre sits third to the

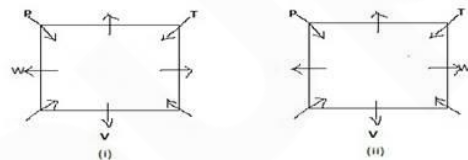
right of V.



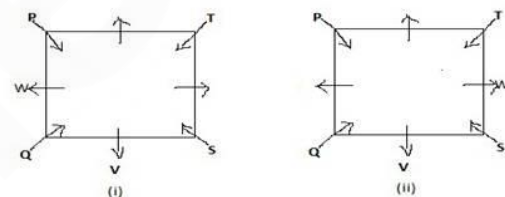
\* T, who faces the centre, is not an immediate neighbor of V.



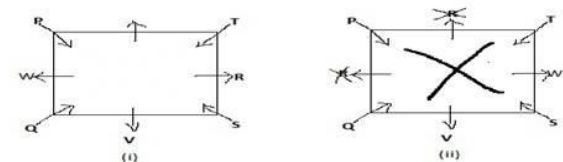
\* Only one person sits between V and W.



\* S sits second to right of Q, Q faces the centre.



\* R is not an immediate neighbor of P.

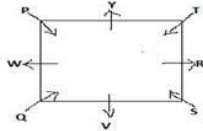


Note:- As per the condition provided, there is no any position left to accommodate R in the diagram (ii), but he can be accommodated in the diagram (i). Therefore seating arrangement in the diagram (ii) proves to be wrong, so we'll rule it out.

Further, only one position is vacant in the arrangement in diagram (i), that will be accommodated by the remaining person i.e. Y.

Therefore, the final seating arrangement is as follows:





As per given arrangement, WP TR QW RS, gap in no. of persons is increasing i.e. 1 person between P & T, 2 people between R & W, 2 people between W & S, so the next gap should be of 4 people and hence YT.

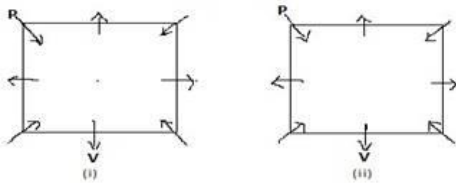
Clearly, W,P and T,R represent neighbors. There are two persons between Q and W as well as R and S. Now we have to choose such pair in which there would be three persons between the two.

so the Correct Answer is Option A.

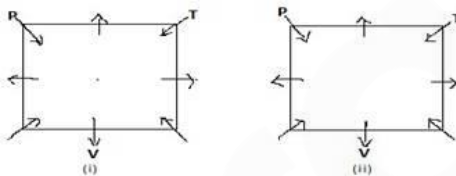
84. Ans. C.

First let us make two diagrams as per the information provided,

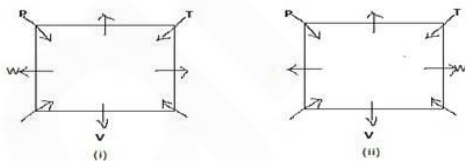
\*P who faces the centre sits third to the right of V.



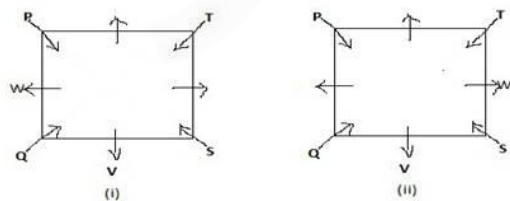
\* T, who faces the centre, is not an immediate neighbor of V.



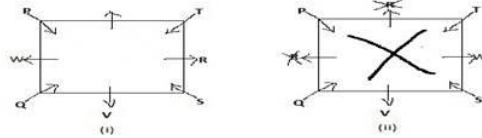
\* Only one person sits between V and W.



\* S sits second to right of Q, Q faces the centre.



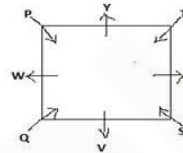
\* R is not an immediate neighbor of P.



Note:- As per the condition provided, there is no any position left to accommodate R in the diagram (ii), but he can be accommodated in the diagram (i). Therefore seating arrangement in the diagram (ii) proves to be wrong, so we'll rule it out.

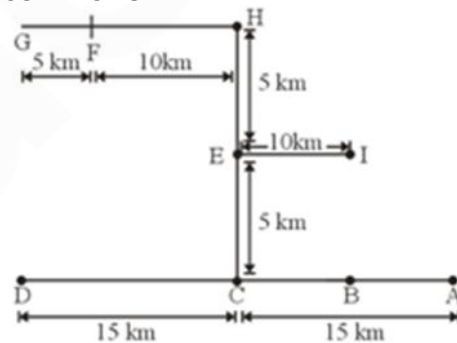
Further, only one position is vacant in the arrangement in diagram (i), that will be accommodated by the remaining person i.e. Y.

Therefore, the final seating arrangement is as follows:



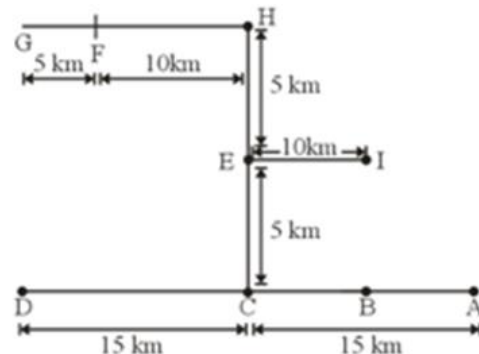
Clearly, R is exactly between T and S, so the Correct Answer is Option C.

85. Ans. C.



IFC does not sit in a straight-line.

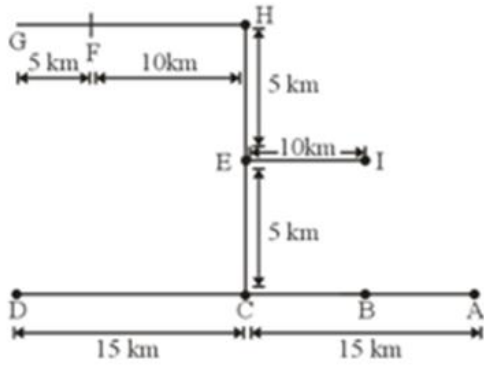
86. Ans. C.



G is in northwest direction with respect to A.

87. Ans. C.

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B is 10 km to the east to C

88. Ans. A.

N is taller to P. M is taller to R but shorter to P. At least one person is shorter to R.

$N > P > M > R > \_$

Q is taller to M. The number of person taller to Q is same as shorter to O.

So we get this-

**Q > N > P > M > R > O**

No one is taller to Q.

Hence, option A.

89. Ans. A.

N is taller to P. M is taller to R but shorter to P. At least one person is shorter to R.

$N > P > M > R > \_$

Q is taller to M. The number of person taller to Q is same as shorter to O.

So we get this-

**Q > N > P > M > R > O**

O is the shortest in the group.

Hence, option A.

90. Ans. D.

N is taller to P. M is taller to R but shorter to P. At least one person is shorter to R.

$N > P > M > R > \_$

Q is taller to M. The number of person taller to Q is same as shorter to O.

So we get this-

**Q > N > P > M > R > O**

Q is taller to N.

Hence, option D.

91. Ans. B.

7.	Ooty
6.	Delhi
5.	Amritsar
4.	Bhuvneshwar
3.	Shimla
2.	Jhansi
1.	Lucknow

92. Ans. A.

7.	Ooty
6.	Delhi
5.	Amritsar
4.	Bhuvneshwar
3.	Shimla
2.	Jhansi
1.	Lucknow

93. Ans. A.

7.	Ooty
6.	Delhi
5.	Amritsar
4.	Bhuvneshwar
3.	Shimla
2.	Jhansi
1.	Lucknow

94. Ans. D.

7.	Ooty
6.	Delhi
5.	Amritsar
4.	Bhuvneshwar
3.	Shimla
2.	Jhansi
1.	Lucknow

95. Ans. E.

7.	Ooty
6.	Delhi
5.	Amritsar
4.	Bhuvneshwar
3.	Shimla
2.	Jhansi
1.	Lucknow

Bhuvneshwar is exactly between Delhi and Jhansi.

96. Ans. C.

NKT BEA DNU ICN GLP  
TNK EBA UND NIC PLG  
EBA NIC PLG TNK UND

97. Ans. D.

NKT BEA DNU ICN GLP  
MJS **AEA CMU IBM FKO**

Hence, there are four words which have at least single vowels.

98. Ans. A.

NKT BEA DNU ICN GLP  
Ist iteration: TKN AEB UND NCI PLG  
IIInd iteration: KTN EAB NUD CNI LPG  
IIIrd iteration: CNI EAB KTN LPG NUD  
(alphabetically arranged)  
99. Ans. D.  
NKT BEA DNU ICN GLP  
NTK BAE DUN INC GPL  
KTN EAB NUD CNI LPG

$K (11) + E (5) + N (14) + C (3) + L (12) = 45$   
100. Ans. B.  
NKT BEA DNU ICN GLP  
 $NKT = N (14) + K (11) + T (20) = 45$   
 $BEA = B (2) + E (5) + A (1) = 8$   
 $DNU = D (4) + N (14) + U (21) = 39$   
 $ICN = I (9) + C (3) + N (14) = 26$   
 $GLP = G (7) + L (12) + P (16) = 35$



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