SBI PO Prelims 2018 Previous Year Questions (Reasoning)

Direction (1 – 5) : Study the following information carefully to answer the given questions.

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule. The following is an illustration of input and rearrangement.

Input : 30 69 20 96 50 56 76 19
Step I : 20 30 69 96 50 56 76 21
Step II : 31 20 69 96 56 76 21 51
Step III : 57 31 20 96 76 21 51 70
Step IV : 77 57 31 20 21 51 70 97
and Step IV is the last step of the rearrangement the above input.

As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the input given below.

Input: 50 17 85 34 88 55 11 92 10 78

1. How many steps will be needed to complete the arrangement?
A. Five
B. Six
C. Four
D. Seven
E. None of these

2. Which of the following would be Step IV?
A. 79 50 18 11 88 92 12 35 56 86
B. 79 51 18 10 88 92 12 35 56 86
C. 79 51 18 11 88 92 12 35 56 86
D. 79 51 18 11 87 92 12 35 56 86
E. None of these

3. In Step V, which of the following numbers would be at the 6th position from the right?
A. 88
B. 92
C. 11
D. 12
E. 17

4. Which of the following would be the final arrangement?
A. 89 79 51 18 11 12 35 55 86 93
B. 89 79 51 18 11 12 35 56 86 93
C. 89 79 51 18 11 12 34 56 86 93
D. 89 79 51 18 10 12 35 56 86 93

E. None of these

5. What will be the position of '92' in step IV?
A. Fifth from the left
B. Eight from the left
C. Fifth from the right
D. Sixth from the right
E. None of these

Direction (6 – 10) : Study the following information carefully to answer the questions.

In a certain code language,
'business is easy to do' is written as 'pa ro se yo ze',
'business arise difficulty in life' is written as 'lo fe pa so te',
'life is easy' is written as 'so ro yo',
'difficulty to do work' is written as 'se lo ze me' and
'easy business life' is written as 'pa yo so'.

6. What may be the possible code for 'difficulty arise in business'?
A. lo, te, fe, pa
B. lo, te, so, pa
C. lo, so, pa, yo
D. te, lo, me, so
E. lo, fe, pa, ro

7. What may be the possible code for 'life is complicated' in the given code language?
A. so ro fe
B. so pa ro
C. ze pa ro
D. so fa ro
E. se ze so

8. What is the code for 'arise' in the given code language?
A. fe
B. te
C. lo
D. pa
E. Either 'fe' or 'te'

9. What is the code for 'difficulty' in the given code language?
A. pa
B. lo
C. so

D. te
E. yo

10. What is the code for 'do' in the given code language?
A. se
B. ze
C. ro
D. pa
E. Either 'se' or 'ze'

Direction (11 – 12) : Study the given question carefully and answer the given question.
C is the daughter of the one who is the son of B. There is only one married couple in the group. F is the brother of E, who is the daughter of D and the granddaughter of B. A is the mother of C. A is the married person in the group.

11. What is true with respect to F?
A. F is the son of B and A
B. F is the daughter of C and E
C. F is the son of D and A
D. F is the daughter of B
E. None of these

12. How is B related to E?
A. B is the uncle of E
B. B is the grandfather of E
C. B is the Grandmother of E
D. B is the brother of E
E. Can't be determined

Direction (13 – 17) : Study the following information to answer the given questions.
Fourteen people are sitting in two parallel rows containing seven people in each row, in such a way that the distance between the two adjacent persons is equal. In row 1, P, Q, R, S, T, U and V are seating and all of them are facing south. In row - 2, A, B, C, D, E, F and G are sitting and all of them are facing north. Therefore, in the given seating arrangement each member seats in a row facing another member of the other row. U sits opposite to G and he is sitting in the middle of the rows. A sits fourth to the right of D. Neither A nor D sits at the extreme ends. T faces D. V does not face

A and V does not sit at any of the extreme ends. V is not an immediate neighbour of T. B sits at one of the extreme ends. Exactly three people sit between B and E. E does not face V. Three persons sit between R and Q. R is not an immediate neighbour of T. C does not face V. P is not an immediate neighbour of R.

13. Who amongst the following sit at the extreme left ends of each of the two parallel rows?
A. R, B
B. F, T
C. R, C
D. B, F
E. None of these

14. Who amongst the following faces A?
A. R
B. T
C. P
D. Q
E. S

15. How many persons are seated between T and S?
A. One
B. Two
C. Three
D. Four
E. None of these

16. P is related to V in the same way as C is related to F. Which of the following is E related to, following the same pattern?
A. B
B. D
C. C
D. A
E. None of the above

17. Which of the following is true regarding F?
A. F sits second to the right of C.
B. F is not an immediate neighbour of A
C. F sits third to the left of D
D. F sits at one of the extreme ends of the line
E. F faces V

Direction (18 – 22) : Study the given information carefully and answer the following question.

A, B, C, D, E, F and G are seven different boxes packed with different numbers written on top of them viz. 1, 2, 3, 4, 5, 6 and 7 but not necessarily in the same order. Box D is immediately above the box packed with number 5. More than three boxes are there between the box packed with number 4 and the box packed with number 2. There are two boxes between the box B and box E. There is only one box between the box E and the box G. There are three boxes between box G and box A, which is packed with number 1. There are only two boxes between box A and box C, which is packed with number 6. The box packed with number 2 is immediately above the box G. More than three boxes are there between the boxes packed with number 5 and number 4. Box E is packed with number 3.

18. Which of the following boxes is packed with a number which is a perfect square?
A. D
B. B
C. F
D. G
E. None of these

19. How many boxes are there between box A and the box which is packed with number 5?
A. None
B. One
C. Two
D. Three
E. Four

20. What is the sum of the numbers written on box D and box F?
A. Five
B. Six
C. Seven
D. Eight
E. Nine

21. Which of the following boxes is packed with an even number?

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

22. On which of the following boxes is number 7 written?
A. D
B. F
C. B
D. G
E. C

Direction (23 – 27) : Study the given information carefully and answer the following question.

Eight friends M, N, O, P, Q, R, S and T have their birthdays in one of the following months – March, June, November and December but not necessarily in the same order. In each month there are two birthdays. The birthdays are either on 16th or 25th of the given month.

O and Q have their birthdays in the month which has 31 days. There are at least two birthdays between M and T. M does not have a birthday in March. N has his birthday in November. T's birthday is immediately after N's birthday. Q's birthday is not on the 16th of any month. N's birthday is somewhere after O's birthday. There are two birthdays between O and P. N and Q have their birthdays on the same date, similarly, M and S have their birthdays on the same date. P and T do not have birthdays on the same date. R does not have a birthday in the month of December.

23. Who among the following has their birthday on the 25th of June?
A. O
B. P
C. R
D. S
E. T

24. How many persons have their birthdays between O and T?
A. One
B. Two

C. Three
D. Four
E. Five

25. M has his birthday on which of the following dates?
A. 25th November
B. 16th December
C. 25th June
D. 16th November
E. None of these

26. Four of the following are alike in a certain way and form a group. Which of the following does not belong to that group?
A. O
B. Q
C. P
D. R
E. T

27. Who among the following has their birthday in June?
A. R
B. S
C. T
D. M
E. N

Direction (28 – 30) : Study the following information and answer the questions given below.
8 people M, N, O, P, Q, R, S and T are standing in such a way that O is 10 m West of N, N is 20 m South with respect to M. M is 30 m towards West with respect to Q. P is 40 m towards South with respect to Q. R is 5 m apart from S towards North. T is 20 m towards East with respect to S. R is 30 m towards West with respect to P.

28. In which direction is Q standing with respect to R?
A. North-West
B. North
C. North-East
D. Cannot be determined
E. None of these

29. If one more person U is standing towards South-West with respect to P,

then in which direction is T standing with respect to U?
A. South-West
B. North-East
C. North-West
D. Cannot be determined
E. None of these

30. What is the direction of O with respect to S?
A. North-West
B. North
C. West
D. Cannot be determined
E. None of these

Direction: The following question is followed by two statements named I and II. You have to decide, if these statements are sufficient to answer the asked questions and mark the correct option.

31. Who among P, Q, R, S and T is the third heaviest if each one has a different weight?
I. Q is heavier than R and S. T is heavier than only P.
II. Only three people are lighter than R. The weight of Q is 50kg which is 2kg more than R. S is heavier than only P and T.
A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
C. If the data either in statement I alone or in statement II alone is sufficient to answer the question.
D. If the data even in both statements I and II together is not sufficient to answer the question.
E. If the data in both statements I and II together is necessary to answer the question.

Direction: The following question is followed by two statements named I and II. You have to decide, if these statements are sufficient to answer the

asked questions and mark the correct option.

32. On which day of the week did Anu arrive?
I. Her sister Tanu correctly remembers that she did not arrive on Wednesday.
II. Her mother correctly mentions that she arrived before Friday but after Tuesday.
A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
C. If the data either in statement I alone or in statement II alone is sufficient to answer the question.
D. If the data in both statements I and II together is necessary to answer the question.
E. If the data even in both statements I and II together is not sufficient to answer the question.

Direction: The following question is followed by two statements named I and II. You have to decide, if these statements are sufficient to answer the asked questions and mark the correct option.

33. How is Mohan related to Faizan?
I. Faizan is the brother of Neelam who is the mother of Rohan.
II. Mohan has two brothers and Rohan is one of them.
A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
C. If the data either in statement I alone or in statement II alone is sufficient to answer the question

D. If the data in both statements I and II even together is not sufficient to answer the question
E. If the data in both statements I and II together is necessary to answer the question

Direction: The following question is followed by two statements named I and II. You have to decide, if these statements are sufficient to answer the asked questions and mark the correct option.

34. Among Puneet, Karishma, Daya and Ritik, who is the son of Manvendra?
I. Puneet and Karishma are sisters of Ritik.
II. Daya is the mother of Karishma and the wife of Manvendra.
A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
C. If the data either in statement I alone or in statement II alone is sufficient to answer the question
D. If the data in both statements I and II even together is not sufficient to answer the question
E. If the data in both statements I and II together is necessary to answer the question

Direction: The question below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

35. There are five persons named Suhana, Rashmi, Radha, Ranu and Zoya standing in a row facing south. Who is standing to the immediate left of Radha?
I. Suhana is not standing on any of the extreme ends of the row. Zoya is standing to the second left of Rashmi.

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II. Zoya is standing in the middle of the row. Suhana is standing third to the left of Rashmi who is at the extreme right.

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question

B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question

C. If the data either in statement I alone or in statement II alone is sufficient to answer the question

D. If the data in both statements I and II even together is not sufficient to answer the question

E. If the data in both statements I and II together is necessary to answer the question

###ANSWERS###

1. Ans. A.
In the arrangement, the numbers are arranged as- the least number is arranged from the left end and the second least number is arranged from right after adding +1 in both sides. The same rule is followed until the arrangement is completed.
Input: 50 17 85 34 88 55 11 92 10 78
Step I: 11 50 17 85 34 88 55 92 78 12
Step II: 18 11 50 85 88 55 92 78 12 35
Step III: 51 18 11 85 88 92 78 12 35 56
Step IV: 79 51 18 11 88 92 12 35 56 86
Step V: 89 79 51 18 11 12 35 56 86 93
Five steps will be needed to complete the arrangement. So answer is 1).

2. Ans. C.
In the arrangement, the numbers are arranged as- the least number is arranged from the left end and the second least number is arranged from right after adding +1 in both sides. The same rule is followed until the arrangement is completed.
Input: 50 17 85 34 88 55 11 92 10 78
Step I: 11 50 17 85 34 88 55 92 78 12
Step II: 18 11 50 85 88 55 92 78 12 35
Step III: 51 18 11 85 88 92 78 12 35 56
Step IV: 79 51 18 11 88 92 12 35 56 86
Step V: 89 79 51 18 11 12 35 56 86 93
79 51 18 11 88 92 12 35 56 86 IV step of Input. So answer is 3).

3. Ans. C.
In the arrangement, the numbers are arranged as- the least number is arranged from the left end and the second least number is arranged from right after adding +1 in both sides. The same rule is followed until the arrangement is completed.
Input: 50 17 85 34 88 55 11 92 10 78
Step I: 11 50 17 85 34 88 55 92 78 12
Step II: 18 11 50 85 88 55 92 78 12 35
Step III: 51 18 11 85 88 92 78 12 35 56
Step IV: 79 51 18 11 88 92 12 35 56 86
Step V: 89 79 51 18 11 12 35 56 86 93
In Step V, '11' would be at 6th position from the right. So answer is 4).

4. Ans. B.
In the arrangement, the numbers are arranged as- the least number is arranged from the left end and the second least number is arranged from right after adding +1 in both sides. The same rule is followed until the arrangement is completed.
Input: 50 17 85 34 88 55 11 92 10 78
Step I: 11 50 17 85 34 88 55 92 78 12
Step II: 18 11 50 85 88 55 92 78 12 35
Step III: 51 18 11 85 88 92 78 12 35 56
Step IV: 79 51 18 11 88 92 12 35 56 86
Step V: 89 79 51 18 11 12 35 56 86 93
Final arrangement would be '89 79 51 18 11 12 35 56 86 93'. So answer is 2).

5. Ans. C.
In the arrangement, the numbers are arranged as- the least number is arranged from the left end and the second least number is arranged from right after adding +1 in both sides. The same rule is followed until the arrangement is completed.
Input: 50 17 85 34 88 55 11 92 10 78
Step I: 11 50 17 85 34 88 55 92 78 12
Step II: 18 11 50 85 88 55 92 78 12 35
Step III: 51 18 11 85 88 92 78 12 35 56
Step IV: 79 51 18 11 88 92 12 35 56 86
Step V: 89 79 51 18 11 12 35 56 86 93
'92' would be at fifth position from the right in step IV.So answer is 3.

6. Ans. A.
As per given information coding description is as follows:
'business is easy to do' - 'pa ro se yo ze'……1)
'business aries difficulty in life' - 'lo fe pa so te'. ……2)
'life is easy' - 'so ro yo'. ……3)
'difficulty to do work' - 'se lo ze me' ……4)
'easy business life' - 'pa yo so'. ……5)
From 1) and 2) business is coded as: pa
From 1), 2) and 5) easy is coded as: yo
From 1), 2) and 5) life is coded as: so
From 1) and 3) 'is' is coded as: ro
From 2) and 4) 'difficulty' is coded as: lo
From 1), 2), 3) and 4) 'to' is coded as: Either 'se' or 'ze'
From 1), 2), 3) and 4) 'do' is coded as: Either 'se' or 'ze'
From 1), 2), 3) and 4) 'work' is coded as: me

From 1), 2), 3) and 4) 'aries' is coded as: Either 'fe' or 'te'

From 1), 2), 3) and 4) 'in' is coded as: Either 'fe' or 'te'

'lo, te, fe, pa' is the code for 'difficulty aries in business'. So answer is 1)

7. Ans. D.

As per given information coding description is as follows:

'business is easy to do' - 'pa ro se yo ze'......1)

'business aries difficulty in life' - 'lo fe pa so te'. ......2)

'life is easy' - 'so ro yo'. ......3)

'difficulty to do work' - 'se lo ze me' ......4)

'easy business life' - 'pa yo so'. ......5)

From 1) and 2) business is coded as: pa

From 1), 2) and 5) easy is coded as: yo

From 1), 2) and 5) life is coded as: so

From 1) and 3) 'is' is coded as: ro

From 2) and 4) 'difficulty' is coded as: lo

From 1), 2), 3) and 4) 'to' is coded as: Either 'se' or 'ze'

From 1), 2), 3) and 4) 'do' is coded as: Either 'se' or 'ze'

From 1), 2), 3) and 4) 'work' is coded as: me

From 1), 2), 3) and 4) 'aries' is coded as: Either 'fe' or 'te'

From 1), 2), 3) and 4) 'in' is coded as: Either 'fe' or 'te'

'life is complicated' can written as 'so fa ro' complicated is the new word for coding so we should write new code also which is fa. So answer is 4).

8. Ans. E.

As per given information coding description is as follows:

'business is easy to do' - 'pa ro se yo ze'......1)

'business aries difficulty in life' - 'lo fe pa so te'. ......2)

'life is easy' - 'so ro yo'. ......3)

'difficulty to do work' - 'se lo ze me' ......4)

'easy business life' - 'pa yo so'. ......5)

From 1) and 2) business is coded as: pa

From 1), 2) and 5) easy is coded as: yo

From 1), 2) and 5) life is coded as: so

From 1) and 3) 'is' is coded as: ro

From 2) and 4) 'difficulty' is coded as: lo

From 1), 2), 3) and 4) 'to' is coded as: Either 'se' or 'ze'

From 1), 2), 3) and 4) 'do' is coded as: Either 'se' or 'ze'

From 1), 2), 3) and 4) 'work' is coded as: me

From 1), 2), 3) and 4) 'aries' is coded as: Either 'fe' or 'te'

From 1), 2), 3) and 4) 'in' is coded as: Either 'fe' or 'te'

'aries' can be coded as Either 'fe' or 'te'. So answer is 5).

9. Ans. B.

As per given information coding description is as follows:

'business is easy to do' - 'pa ro se yo ze'......1)

'business aries difficulty in life' - 'lo fe pa so te'. ......2)

'life is easy' - 'so ro yo'. ......3)

'difficulty to do work' - 'se lo ze me' ......4)

'easy business life' - 'pa yo so'. ......5)

From 1) and 2) business is coded as: pa

From 1), 2) and 5) easy is coded as: yo

From 1), 2) and 5) life is coded as: so

From 1) and 3) 'is' is coded as: ro

From 2) and 4) 'difficulty' is coded as: lo

From 1), 2), 3) and 4) 'to' is coded as: Either 'se' or 'ze'

From 1), 2), 3) and 4) 'do' is coded as: Either 'se' or 'ze'

From 1), 2), 3) and 4) 'work' is coded as: me

From 1), 2), 3) and 4) 'aries' is coded as: Either 'fe' or 'te'

From 1), 2), 3) and 4) 'in' is coded as: Either 'fe' or 'te'

Code for 'difficulty' is 'lo'. So answer is 2).

10. Ans. E.

As per given information coding description is as follows:

'business is easy to do' - 'pa ro se yo ze'......1)

'business aries difficulty in life' - 'lo fe pa so te'. ......2)

'life is easy' - 'so ro yo'. ......3)

'difficulty to do work' - 'se lo ze me' ......4)

'easy business life' - 'pa yo so'. ......5)

From 1) and 2) business is coded as: pa

From 1), 2) and 5) easy is coded as: yo

From 1), 2) and 5) life is coded as: so

From 1) and 3) 'is' is coded as: ro

From 2) and 4) 'difficulty' is coded as: lo

From 1), 2), 3) and 4) 'to' is coded as: Either 'se' or 'ze'

From 1), 2), 3) and 4) 'do' is coded as: Either 'se' or 'ze'

From 1), 2), 3) and 4) 'work' is coded as: me

From 1), 2), 3) and 4) 'aries' is coded as: Either 'fe' or 'te'
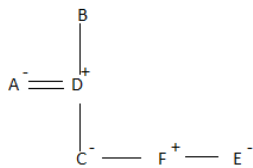
From 1), 2), 3) and 4) 'in' is coded as: Either 'fe' or 'te'

Code for 'difficulty' is 'lo'. So answer is 2).

Code for 'do' in the given code language is Either 'se' or 'ze'. So answer is 5)

11. Ans. C.

As per given information family tree is as follows:

So F is the grandson of B and the son of A and D. So the answer is 3).

12. Ans. E.

As per given information family tree is as follows:
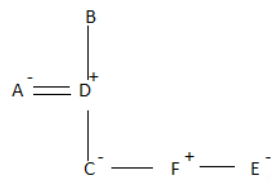
As per given information, B's gender is not defined. So, option E is the correct response.

13. Ans. C.
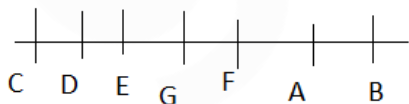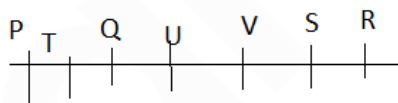
As per the above diagram, R sits at the extreme left ends of Row 1 and C sits at the extreme left end of Row 2. So answer is 3).

14. Ans. E.
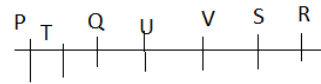
S faces A. So answer is 5).

15. Ans. C.
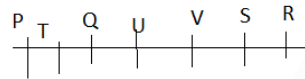
Three persons are seated between T and S. So answer is 3).

16. Ans. A.
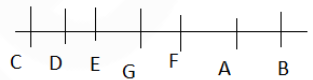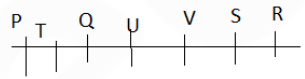
P is related to V in the same way as C is related to F. In the same pattern E related to B. So answer is 1).

17. Ans. E.

As per given information arrangement figure is as follows:
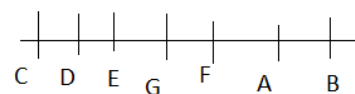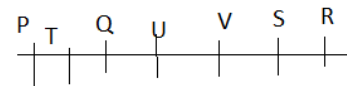
As per above diagram, F faces V is the true information regarding F. So answer is 5).

18. Ans. B.

Box - A, B, C, D, E, F and G

Number - 1, 2, 3, 4, 5, 6 and 7

1. There are two boxes between the box B and box E. There is only one box between box E and box G. There are three boxes between box G and box A, which is

packed with number 1. There are only two boxes between box A and box C, which is packed with number 6. The box packed with number 2 is immediately above the box G.

Box	Number
	2
G	
C	6
E	
A	1
B	

2. Box E is packed with number 3. Box D is immediately above the box packed with number 5.

Box	Number
D	2
G	5
C	6
E	3
F	
A	1
B	

3. More than three boxes are there between box packed with number 4 and box packed with number 2. More than three boxes are there between box packed with number 5 and box packed with number 4.

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

Hence, box B is packed with number 4.

19. Ans. D.

Box - A, B, C, D, E, F and G

Number - 1, 2, 3, 4, 5, 6 and 7

1. There are two boxes between the box B and box E. There is only one box between box E and box G. There are three boxes between box G and box A, which is

packed with number 1. There are only two boxes between box A and box C, which is packed with number 6. The box packed with number 2 is immediately above the box G.

Box	Number
	2
G	
C	6
E	
A	1
B	

2. Box E is packed with number 3. Box D is immediately above the box packed with number 5.

Box	Number
D	2
G	5
C	6
E	3
F	
A	1
B	

3. More than three boxes are there between box packed with number 4 and box packed with number 2. More than three boxes are there between box packed with number 5 and box packed with number 4.

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

Hence, three boxes are there between box A and box packed with number 5.

20. Ans. E.

Box - A, B, C, D, E, F and G

Number - 1, 2, 3, 4, 5, 6 and 7

1. There are two boxes between the box B and box E. There is only one box between box E and box G. There are three

boxes between box G and box A, which is packed with number 1. There are only two boxes between box A and box C, which is packed with number 6. The box packed with number 2 is immediately above the box G.

Box	Number
	2
G	
C	6
E	
A	1
B	

2. Box E is packed with number 3. Box D is immediately above the box packed with number 5.

Box	Number
D	2
G	5
C	6
E	3
F	
A	1
B	

3. More than three boxes are there between box packed with number 4 and box packed with number 2. More than three boxes are there between box packed with number 5 and box packed with number 4.

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

Hence, the sum is 2 + 7 = 9.
21. Ans. C.
Box - A, B, C, D, E, F and G
Number - 1, 2, 3, 4, 5, 6 and 7
1. There are two boxes between the box B and box E. There is only one box between box E and box G. There are three

boxes between box G and box A, which is packed with number 1. There are only two boxes between box A and box C, which is packed with number 6. The box packed with number 2 is immediately above the box G.

Box	Number
	2
G	
C	6
E	
A	1
B	

2. Box E is packed with number 3. Box D is immediately above the box packed with number 5.

Box	Number
D	2
G	5
C	6
E	3
F	
A	1
B	

3. More than three boxes are there between box packed with number 4 and box packed with number 2. More than three boxes are there between box packed with number 5 and box packed with number 4.

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

Hence, box D is packed with number 2.
22. Ans. B.
Box - A, B, C, D, E, F and G
Number - 1, 2, 3, 4, 5, 6 and 7
1. There are two boxes between the box B and box E. There is only one box between box E and box G. There are three

boxes between box G and box A, which is packed with number 1. There are only two boxes between box A and box C, which is packed with number 6. The box packed with number 2 is immediately above the box G.

Box	Number
	2
G	
C	6
E	
A	1
B	

2. Box E is packed with number 3. Box D is immediately above the box packed with number 5.

Box	Number
D	2
G	5
C	6
E	3
F	
A	1
B	

3. More than three boxes are there between box packed with number 4 and box packed with number 2. More than three boxes are there between box packed with number 5 and box packed with number 4.

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

Hence, box F is packed with number 7.
23. Ans. B.
Person - M, N, O, P, Q, R, S and T
Months - March, June, November and December
Date – 16th or 25th

Step 1: N has birthday in November. T's birthday is immediately after N's.

Possible arrangements are
Case 1:

	March (31)	June (30)	November (30)	December (31)
16th			N	
25th			T	

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th			N	

Step 2: O and Q have birthdays in month having 31 days. Q's birthday is not on 16th of any month. N and Q have birthday on same date that is not possible in case 1. So, case 2 is correct.

Possible arrangements are
Case 1:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th			N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th	Q		N	

Step 3: N's birthday is somewhere after O's. There are two birthdays between O and P. P and T do not have birthdays on same date. O and Q have birthdays in month having 31 days.
Possible arrangements are

Case 1:

	March (31)	June (30)	November (30)	December (31)
16th	O			T
25th		P	N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th	O			T
25th	Q	P	N	

Step 4: There are at least two birthdays between M and T. M does not have birthday in March. M and S have birthdays on same date. R does not have birthday in December month.
Possible arrangement is

	March (31)	June (30)	November (30)	December (31)
16th	O	M	S	T
25th	R	P	N	Q

Hence, P has a birthday on the 25th of June.
24. Ans. E.
Person - M, N, O, P, Q, R, S and T
Months - March, June, November and December
Date – 16th or 25th

Step 1: N has birthday in November. T's birthday is immediately after N's.

Possible arrangements are
Case 1:

	March (31)	June (30)	November (30)	December (31)
16th			N	
25th			T	

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th			N	

Step 2: O and Q have birthdays in month having 31 days. Q's birthday is not on 16th of any month. N and Q have birthday on same date that is not possible in case 1. So, case 2 is correct.

Possible arrangements are
Case 1:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th			N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th	Q		N	

Step 3: N's birthday is somewhere after O's. There are two birthdays between O and P. P and T do not have birthdays on same date. O and Q have birthdays in month having 31 days.
Possible arrangements are

Case 1:

	March (31)	June (30)	November (30)	December (31)
16th	O			T
25th		P	N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th	O			T
25th	Q	P	N	

Step 4: There are at least two birthdays between M and T. M does not have birthday in March. M and S have birthdays on same date. R does not have birthday in December month.
Possible arrangement is

	March (31)	June (30)	November (30)	December (31)
16th	O	M	S	T
25th	R	P	N	Q

25. Ans. E.
Person - M, N, O, P, Q, R, S and T
Months - March, June, November and December
Date – 16th or 25th

Step 1: N has birthday in November. T's birthday is immediately after N's.

Possible arrangements are
Case 1:

	March (31)	June (30)	November (30)	December (31)
16th			N	
25th			T	

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th			N	

Step 2: O and Q have birthdays in month having 31 days. Q's birthday is not on 16th of any month. N and Q have birthday on same date that is not possible in case 1. So, case 2 is correct.

Possible arrangements are
Case 1:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th			N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th	Q		N	

Step 3: N's birthday is somewhere after O's. There are two birthdays between O and P. P and T do not have birthdays on same date. O and Q have birthdays in month having 31 days.
Possible arrangements are

Case 1:

	March (31)	June (30)	November (30)	December (31)
16th	O			T
25th		P	N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th	O			T
25th	Q	P	N	

Step 4: There are at least two birthdays between M and T. M does not have birthday in March. M and S have birthdays on same date. R does not have birthday in December month.
Possible arrangement is

	March (31)	June (30)	November (30)	December (31)
16th	O	M	S	T
25th	R	P	N	Q

26. Ans. C.
Person - M, N, O, P, Q, R, S and T
Months - March, June, November and December
Date – 16th or 25th

Step 1: N has birthday in November. T's birthday is immediately after N's.

Possible arrangements are
Case 1:

	March (31)	June (30)	November (30)	December (31)
16th			N	
25th			T	

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th			N	

Step 2: O and Q have birthdays in month having 31 days. Q's birthday is not on 16th of any month. N and Q have birthday on same date that is not possible in case 1. So, case 2 is correct.

Possible arrangements are
Case 1:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th			N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th	Q		N	

Step 3: N's birthday is somewhere after O's. There are two birthdays between O and P. P and T do not have birthdays on same date. O and Q have birthdays in month having 31 days.
Possible arrangements are

Case 1:

|	March (31)	June (30)	November (30)	December (31)
16th	O			T
25th		P	N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th	O			T
25th	Q	P	N	

Step 4: There are at least two birthdays between M and T. M does not have birthday in March. M and S have birthdays on same date. R does not have birthday in December month.
Possible arrangement is

	March (31)	June (30)	November (30)	December (31)
16th	O	M	S	T
25th	R	P	N	Q

27. Ans. D.
Person - M, N, O, P, Q, R, S and T
Months - March, June, November and December
Date – 16th or 25th

Step 1: N has birthday in November. T's birthday is immediately after N's.

Possible arrangements are
Case 1:

	March (31)	June (30)	November (30)	December (31)
16th			N	
25th			T	

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th			N	

Step 2: O and Q have birthdays in month having 31 days. Q's birthday is not on 16th of any month. N and Q have birthday on same date that is not possible in case 1. So, case 2 is correct.

Possible arrangements are
Case 1:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th			N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th				T
25th	Q		N	

Step 3: N's birthday is somewhere after O's. There are two birthdays between O and P. P and T do not have birthdays on same date. O and Q have birthdays in month having 31 days.
Possible arrangements are

Case 1:

	March (31)	June (30)	November (30)	December (31)
16th	O			T
25th		P	N	Q

Case 2:

	March (31)	June (30)	November (30)	December (31)
16th	O			T
25th	Q	P	N	

Step 4: There are at least two birthdays between M and T. M does not have birthday in March. M and S have birthdays on same date. R does not have birthday in December month.
Possible arrangement is

	March (31)	June (30)	November (30)	December (31)
16th	O	M	S	T
25th	R	P	N	Q

28. Ans. C.
Here we have to go line by line to make the direction table-
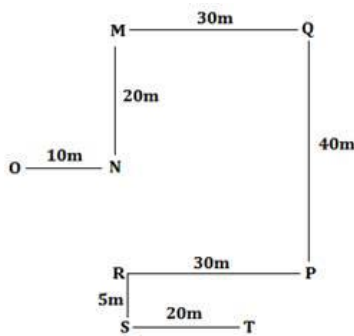
So, now we can answer the given questions.
Q is standing in the North-east direction with respect to R

29. Ans. D.
Here we have to go line by line to make the direction table-
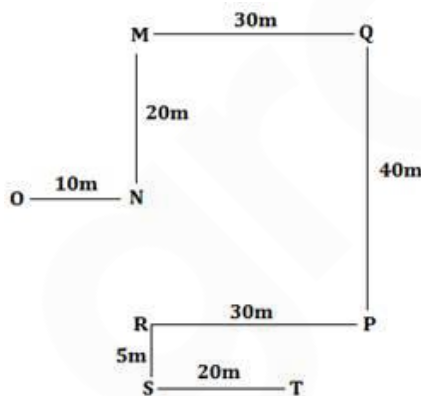
So, now we can answer the given questions.
No information is given that where is the person U is standing. So, we can't predict the direction of T with respect to U.

30. Ans. A.
Here we have to go line by line to make the direction table-
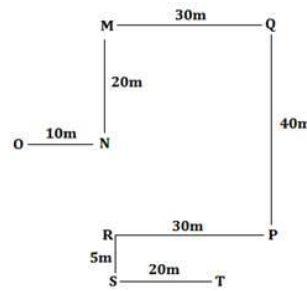
So, now we can answer the given questions.

31. Ans. B.
In this type of questions, we should start from statement I alone and then check the statement II alone. If we cannot answer the question from both the statements individually, then we should combine both the statements and try to answer the question.

From statement I: We cannot determine that who among them is the third heaviest.
From statement II: Only three are lighter than R.

Lighter to Heavier

			R
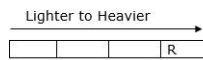
The weight of Q is 50 kg, which is 2 kg more than that of R. S is heavier only than P and T.

Lighter to Heavier

| P/T	T/P	S	R	Q
			48 kg	50 kg
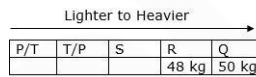
∴ S is the third heaviest among them.

32. Ans. D.
From either of the statements alone, we cannot answer the question.
On combining the statements I and II together:
Her mother remembers that, she arrived before Friday but after Tuesday. It means that she arrived either on Wednesday or Thursday but her sister remembers that she did not arrive on Wednesday. It means she arrived on Thursday.

33. Ans. D.
From statement I: We can't answer the question using this statement alone because there is no relation given between Mohan and Faizan.
From statement II: It is given that Mohan has two brothers and Rohan is one of them. So again we can't answer the question using this statement alone as there is no relation given between Mohan and Faizan.
On combining statements I and II: Faizan is the brother of Neelam, who is mother of Rohan and Mohan has two brothers and Rohan is one of them.
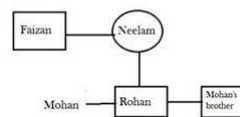
From this diagram, it is clear clear that Mohan is either nephew or niece of Faizan as the gender of Mohan is not given.
Hence, both the statements together are not sufficient to answer the question.

34. Ans. D.

From statement I:
It is given that, 'Puneet and Karishma are sisters of Ritik'.
We can't answer the question as the relation between any of four of them with Manvendra is not given.
From statement II:
It is given that, 'Daya is the mother of karishma and wife of Manvendra'.
We can't answer the question using this statement alone as we cannot determine that who is the son of Manvendra.

On combining statement I and II:
Now we have, 'Puneet and Karishma are sisters of Ritik' and 'Daya is the mother of karishma and wife of Manvendra'.
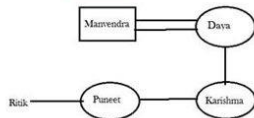
From the diagram, we do not know the gender of Ritik, therefore we can't answer the question using even both the statements together.

35. Ans. D.
From statement I:
We can't answer the question using this statement alone because there is no any information given about the position of Radha.
From statement II:
We can't answer the question using this statement alone because there is no any information given about the position of Radha.
On combining statement I and II:
'Zoya is standing in the middle of the row. Zoya is standing to the second left of Rashmi' and Suhana is standing at third to the left of Rashmi who is at the extreme right'. Still we don't know the position of the Radha, so even after using both the statements together we cannot answer the question.