

**SBI PO Mains 2016 Reasoning Question Paper**

**Directions (1-5):** Study the following information carefully and answer the questions given below:

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and its rearrangement. (All the numbers are two-digit numbers).

Input: dean out 51 27 four 26 aim 16  
Step I: 27 dean out 51 four 26 aim 16  
Step II: dean 27 out 51 four 26 aim 16  
Step III: 51 dean 27 out four 26 aim 16  
Step IV: four 51 dean 27 out 26 aim 16  
Step V: 16 four 51 dean 27 out 26 aim  
Step VI: aim 16 four 51 dean 27 out 26  
Step VII: 26 aim 16 four 51 dean 27 out  
Step VIII: out26 aim 16 four 51 dean 27  
And Step VIII is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the given steps find out the appropriate steps for the given input.

Input: Intel 90 81 live 40 can 17 open time 52 37 ball ear

1. How many steps will be required to complete the given input?  
A. Eight                      B. Twelve  
C. Eleven                     D. Thirteen  
E. None of these
2. How many elements are there between 'ball' and 'open' in the second- last step?  
A. One                         B. Two  
C. Three                      D. Four  
E. None of these
3. What is the position of '40' in step VII?  
A. Fifth from the left end  
B. Fifth from the right end  
C. First from the left end  
D. Ninth from the right end  
E. None of these
4. Which of the following is seventh to the left of 'live' in step V?  
A. can                         B. 81  
C. intel                        D. open  
E. None of these
5. Which of the following is sixth to the right of the third element from the left end in Step X?  
A. 37                         B. 17  
C. ball                        D. intel

**Directions (6-10):** Study the following information carefully and answer the questions given below-

In the following questions, the symbols @, &, %, \$ and \* are used with the following meanings:

'M & N' means 'M is not greater than N'.  
'M \* N' means 'M is not smaller than N'.  
'M % N' means 'M is neither greater than nor equal to N'.  
'M \$ N' means 'M is neither smaller than nor equal to N'.  
'M @ N' means 'M is neither greater than nor smaller than N'.

In each of the following questions assuming the given statements to be true, find out which of the three conclusions (a), (b) and (c) given below them is/are definitely true.

6. G \$ R, R \$ T, K % T, K \* S  
Then which of the following conclusion follows?  
(a) T \$ S  
(b) G \$ K  
(c) S % K  
A. Conclusion (a) Only  
B. Conclusion (b) Only  
C. Conclusion (a) and (b) Only  
D. Conclusion (a) and (c) Only  
E. All Follows
7. P % Q, Q % N, N @ G, G \* R, R \$ S  
Then which of the following conclusion follows  
(a) R \$ Q  
(b) P \$ S  
(c) N % S  
A. Conclusion (a) Only  
B. Conclusion (c) Only  
C. Conclusion (b) Only  
D. Conclusion (b) and (c) Only  
E. None of the conclusions follow
8. P @ Q, Q \$ N, N \* G, G @ R, R & S  
Then which of the following conclusion follows  
(a) Q \$ R  
(b) P \* S  
(c) N @ S  
A. Conclusion (a) Only  
B. Conclusion (b) Only  
C. Conclusion (a) and (b) Only  
D. Conclusion (a) and (c) Only

9. G % H, H \* N, N \* P, P % M  
Then which of the following conclusion follows  
(a) H @ P  
(b) G \$ M  
(c) H \$ P  
A. Conclusion (a) Only  
B. Conclusion (b) Only  
C. Conclusion (a) and (c) Only  
D. Either Conclusion (a) or (c) Only  
E. Conclusion (c) Only

10. R % T, T @ N, N & P, P \$ M  
Then which of the following conclusion follows  
(a) T \* M  
(b) R % P  
(c) R \* M  
A. Conclusion (a) Only  
B. Conclusion (b) Only  
C. Conclusion (c) Only  
D. None Follows  
E. All Follows

**Directions (11-15):** Study the following information carefully and answer the questions given below:

In a certain code language

'form long single tired' is written as '#G4 @E6 %M4 \$D5'

'large statue turn find' is written as '@E6 #E5 \$N4 %D4'

'some liberty fix task' is written as '%X3 \$K4 #Y7 @E4'

'tall figure like start' is written as '\$L4 #E4 @T5 %E6' ###DONE###

11. Which of the following code for 'smart'?  
A. %S5                      B. @T5  
C. %T5                      D. \$S4  
E. @L4
12. Which of the following code for 'long'?  
A. #G4                      B. @E6  
C. %M4                      D. \$D5  
E. None of these
13. In the given code language, what does the code '@T5' stand for?  
A. start                      B. like  
C. Figure                      D. tall  
E. None of these

14. Which of the following code for 'fix large'?  
A. @E6 \$K4                      B. %X3 %D4  
C. %X3 #E5                      D. #E5 \$K4  
E. None of these
15. Which of the following code for 'tired'?  
A. %M4                      B. @E6  
C. #G4                      D. \$D5  
E. None of these

**Direction (16-20):** Study the following information carefully and answer the questions given below:

There are five persons P,Q,R,S and T. Two of them ages are 35 and other three ages are viz, 27, 29 and 32. They are working in Google, Sony, Samsung, Apple and Alibaba, but not necessarily in the same order. A person working in Sony and the one who is working in Alibaba are the same age. They belong to different countries, Canada, US, France, China and India, but not necessarily in the same order. The person working in Alibaba is tallest, while the one is working in Google is shortest among the five persons. The one who is working in Sony and his height lies between the one who is working in Samsung and the one who is working in Alibaba respectively. S is working in Sony and his age is 35 while T belongs to France and his age is 32. The person working in Samsung belongs to China and his age is 27. Q belongs to India, while P belongs to Canada and working in Google.

16. Where does Q work?  
A. Sony                      B. Alibaba  
C. Samsung                      D. Apple  
E. Can't be determined
17. Where does T work?  
A. Sony                      B. Alibaba  
C. Apple                      D. Samsung  
E. Can't be determined
18. Where does R work?  
A. Samsung                      B. Alibaba  
C. Apple                      D. Sony  
E. Can't be determined
19. According to Height, who among the following between P and R?  
A. The one who is working in Alibaba  
B. The one who is working in Sony  
C. The one who is working in Samsung  
D. Can't be determined  
E. None of these



20. Which of the following statement is correct?
- A. T belongs to Canada
  - B. P age is 32
  - C. R works in Alibaba
  - D. S belongs to US
  - E. Q works in Samsung

**Directions (21-23):** Each passage is followed by a set of five statements. Answer according to the directions given for each question.

There's a lot of outrage on the Internet about migrants coming ashore and immediately taking selfies. You seriously do not want to read the comments in the Daily Express after the site ran a story under a photo of smiling Syrian refugees with phones on selfie sticks. This particular tweet, showing a woman taking a selfie when she reaches land, is doing the rounds of anti-immigrant websites, and is considered proof that these are rich people, "economic migrants" rather than real victims of tragedy.

Personally, I think the first thing I would do if I got off an inflatable dinghy after a long trip like that is take a selfie of myself and my kid to prove that I'd made it. I suspect that the happy Syrians are doing much the same thing. In fact, according to Middle East Online, many migrants consider their smartphones to be more important than food. "Our phones and power banks are more important for our journey than anything, even more important than food," said Wael, a 32-year-old from the devastated Syrian city Homs who reached the Greek resort island of Kos on Thursday morning.

21. Which of the above statements would most weaken the author's argument as presented in the final paragraph of the passage: "I suspect that the happy Syrians are doing much the same thing. "?
- A. It was found that for refugees, taking selfies and posting them on the internet was the only way of telling their families back home that they have made it across the borders.
  - B. Research done on earlier instances of the mass migrations of the past have proved that the first instinct of a refugee on reaching his destination is the hunt

for a suitable shelter, with little regard for exhaustion and communication with leftovers back home.

- C. Migrants are motivated by the love of travel and seeking new places rather than food and shelter.
  - D. A profile study done upon the latest batch of migrants reaching the shores of Europe prove that most of them are erstwhile businessmen, small time industrialists and traders who are looking to set up shop in European countries.
  - E. Middle Eastern immigrants are more concerned with the safety of their cellphone devices than with arranging food and shelter.
22. Which of the above statements strengthens the author's argument " I suspect that the happy Syrians are doing much the same thing. "
- A. It was found that for refugees, taking selfies and posting them on the internet was the only way of telling their families back home that they have made it across the borders.
  - B. Research done on earlier instances of the mass migrations of the past have proved that the first instinct of a refugee on reaching his destination is the hunt for a suitable shelter, with little regard for exhaustion and communication with leftovers back home.
  - C. Migrants are motivated by the love of travel and seeking new places rather than food and shelter.
  - D. A profile study done upon the latest batch of migrants reaching the shores of Europe prove that most of them are erstwhile businessmen, small time industrialists and traders who are looking to set up shop in European countries.
  - E. Middle Eastern immigrants are more concerned with the safety of their cellphone devices than with arranging food and shelter.
23. Which of the above statements can be safely inferred from the passage?
- A. It was found that for refugees, taking selfies and posting them on the internet was the only way of telling their families back home that they have made it

- B. Research done on earlier instances of the mass migrations of the past have proved that the first instinct of a refugee on reaching his destination is the hunt for a suitable shelter, with little regard for exhaustion and communication with leftovers back home.
- C. Migrants are motivated by the love of travel and seeking new places rather than food and shelter.
- D. A profile study done upon the latest batch of migrants reaching the shores of Europe prove that most of them are erstwhile businessmen, small time industrialists and traders who are looking to set up shop in European countries.
- E. Middle Eastern immigrants are more concerned with the safety of their cellphone devices than with arranging food and shelter.
24. **Direction:** Read the following statements and answer the question given below.

U.S. fraternity and sorority members who drink heavily while in school don't tend to drink after graduation, according to a recent study in Psychology of Addictive Behaviours.

Which of the following would be a logical extension of the above passage?

- A. Most men come out of a drinking binge after they cross thirty.
- B. With graduation comes a sense of responsibility which makes students abstain from such vices.
- C. Drinking begins as a group activity and as students leave these groups, the habit of drinking is also left behind.
- D. Drinking heavily during college days make most students realize the harmful effects of alcoholic drinks.
- E. None of these
25. **Direction:** Read the following statements and answer the question given below.

During peak hours the local trains of city M are chaotic. Generally, peak hours are a specific time period in the morning when everyone goes to work and in the evening when people return. Some people feel that the state government has not taken any measures in the past two years to deal with the situation.

Which of the following weakens the perception of the people?

- A. In the past one year the state government has increased the frequency of trains in peak hours and has also increased the number of passengers per train.
- B. In the past two years the state government has received many petitions signed by the locals of city M travelling by trains, suggesting that much improvement is required in the current condition of the trains.
- C. The first-class passengers of the local trains feel that their plight is worse than that of the second-class passengers in the trains.
- D. As the population of the city is ever increasing due to high rate of migration and better job opportunity, there is a surge in the number of people travelling by trains.
- E. A passenger has given a statement that 20 years ago it was possible to get inside the train.

**Directions:** Read the following information carefully and answers the given question.

The municipal authority has made English language as one of the compulsory subjects in all primary schools under its control from the current academic year.

26. Which of the following can be an assumption according to the given information? (An assumption is something that is supposed or taken for granted).
- A. The students in the primary school run by municipal authority are not taught English so far.
- B. The parents of the primary school students do not have working knowledge in English language so far.
- C. All the primary schools outside the control of municipal authority teach English language as one of the compulsory subjects
- D. Other subjects can be changed according to the will of the students.
- E. Use of English is continuously growing so it should be taught at primary levels in school and it should not be neglected at this level.



27. **Directions:** In each of the following questions, two statements numbered I and II are given. These may cause and effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship. Read both the statements in each question and mark your answer as:

**Statements:**

I. The university has instructed all the colleges under its jurisdiction to ban use of mobile phones inside the college premises.  
II. Majority of the teachers of the colleges signed a joint petition to the university complaining the disturbances.

- A. If statement I is the cause and II is its effect.  
B. If statement II is the cause and I is its effect.  
C. If both the statements I and II are independent causes.  
D. If both the statements I and II are effects of independent causes.  
E. If both the statements I and II are effects of some common cause.

**Directions (28-29):** In each of the following questions, a statement is followed by two course of action. A course of action is taken for redressal, follow up, etc. Read the statement carefully and answer:

28. **Statement:** Several unscrupulous and non-affiliated colleges have started to lure unsuspecting students by giving attractive advertisements.

**Course of Action:**

I. Students should read the advertisements and decide themselves.  
II. Students and guardians should contact the University itself and verify the data provided.

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

29. **Statement:** A unacceptable number of children die during the first year of their lives. The high incidence of infant deaths is a major cause of concern for the health ministry.

**Course of Action:**

I. All government hospitals should be privatised to improve health conditions.

II. Governments should higher levels of their budgets to health services.

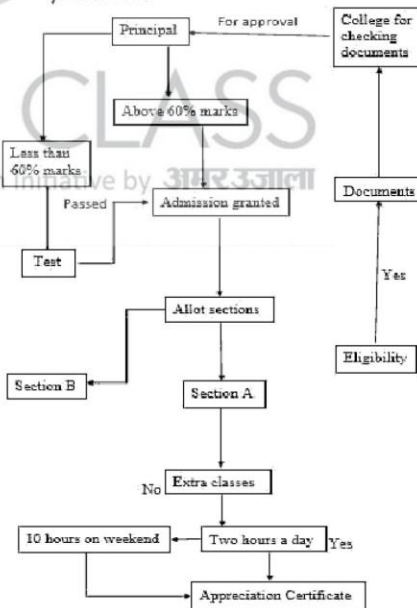
- A. Only course of action I follows  
B. Only course of action II follows  
C. Either I or II follows  
D. Neither I nor II follows  
E. Both I and II follow

30. The district administration has issued a circular to all the farmers under its jurisdiction advising them for not using pesticides indiscriminately as it may pollute the ground water.

Which of the following can be assumed from the given statement?

- A. People may stop using ground water if the farmers continue to use pesticides indiscriminately.  
B. The polluted ground water can cause health problems.  
C. Farmers may refrain from using pesticides indiscriminately.  
D. People in the district are majorly dependent on ground water for drinking use.  
E. None of these

**Directions (31-35):** The procedure for the admission in the college by the students is depicted in the Data flow diagram. After analyzing the given Data flow diagram, go through the following questions:



31. After which step the college should grant admission to the students?
- After obtaining the principal approval.
  - After getting the documents verified by the college.
  - After showing the certificate depicting the required percentage marks.
  - After fulfilling the eligibility criterion and documents verified by the college.
  - Cannot be determined.
32. What step should be taken by the student if the eligibility is not met?
- Go to the principal or concerned authority to see into the matter.
  - Report to the college and check if the eligibility norms should be relaxed.
  - If obtained the 60% marks, then admission is granted.
  - Data insufficient.
  - None of these.
33. What is the main condition that is not highlighted to allot the section A to the student?
- The section A is committed to the bright students only.
  - The section A is for the students who have scored more than 60% marks.
  - The section A students selection procedure is based on which conditions.
  - The section A is for those who have appeared for the test and eligible for the extra classes.
  - The section A must be ready to take the extra classes for the appreciation certificate.
34. What is the most sufficient condition to obtain an appreciation certificate?
- The person should enroll in section A only.
  - The admission is mere requirement to obtain the appreciation certificate.
  - The student should complete the extra classes on time.
  - If the students opt for weekend extra classes, then he/she can obtain the appreciation certificate.
  - The student should be in section A and attend the extra classes.
35. What is the next step taken by the student if the test conducted by the college is not passed?
- Then he cannot obtain the admission

- The student can go back for the approval of the principal.
- Apply for the another college having the less than 60% marks criterion.
- None of the information is true.
- The student will request the management for retest.

**Directions (36-40) :** Study the following information carefully and answer the questions given below:

Ten persons are sitting in two parallel rows containing five people in such a way that there is an equal distance between adjacent persons. In Row - 1, Mohan, Naresh, Omesh, Rahul and Prateek are seated (but not necessarily in the same order) and all of them are facing South. In Row -2, Ashish, Bipin, Chinu, Dinu and Jatin are seated (but not necessarily in the same order) and all of them are facing North. One seat is vacant in each row. All of them like a different colour-Red, Purple, Yellow, Orange, Blue, Green, Black, White, Pink and Grey, but not necessarily in the same order.

- Vacant seat of row-2 faces the one who sits third to the right of Rahul. Chinu neither like Orange nor Yellow. The person who likes Grey is facing South Direction.
- Naresh likes Pink and faces the one who likes Green. Only three seats are there between Rahul and Naresh.
- The person who likes Orange is facing North Direction. The person who likes Green and Vacant seat of row-2 are next to each other. The one who likes Black sits second to the right of Mohan.
- Vacant seat of row-1 is neither an immediate neighbour of Naresh nor Rahul.
- One of the immediate neighbours of vacant seat of row-1 faces Jatin. The one who likes White sits at one of the extreme ends of the line.
- Only three seats are there between Jatin and the one who faces Omesh. The one who likes Red sits at one of the extreme ends of the line.
- There are two seats between one who likes Grey and the one who likes White. Ashish sits second to the left of the seat facing Mohan.





## SOLUTIONS

In the rearrangement numbers and words are arranged in alternate steps on the left. First odd numbers are arranged in ascending order and then even numbers are arranged in ascending order. The words which start with consonants are arranged first in alphabetical order and then the words which start with vowels are also arranged in alphabetical order.

**Input:** Intel 90 81 live 40 can 17 open time 52 37 ball ear

**Step I:** 17 Intel 90 81 live 40 can open time 52 37 ball ear

**Step II:** ball 17 Intel 90 81 live 40 can open time 52 37 ear

**Step III:** 37 ball 17 Intel 90 81 live 40 can open time 52 ear

**Step IV:** can 37 ball 17 Intel 90 81 live 40 open time 52 ear

**Step V:** 81 can 37 ball 17 Intel 90 live 40 open time 52 ear

**Step VI:** live 81 can 37 ball 17 Intel 90 40 open time 52 ear

**Step VII:** 40 live 81 can 37 ball 17 Intel 90 open time 52 ear

**Step VIII:** time 40 live 81 can 37 ball 17 Intel 90 open 52 ear

**Step IX:** 52 time 40 live 81 can 37 ball 17 Intel 90 open ear

**Step X:** ear 52 time 40 live 81 can 37 ball 17 Intel 90 open

**Step XI:** 90 ear 52 time 40 live 81 can 37 ball 17 Intel open

**Step XII:** Intel 90 ear 52 time 40 live 81 can 37 ball 17 open

**Step XIII:** open Intel 90 ear 52 time 40 live 81 can 37 ball 17

1. D

2. A

3. C

4. B

5. C

6. C

On decoding and combining the expressions, we get,

$G > R > T > K \geq S$

Now we will check each option

Option (a)  $T \$ S \Rightarrow T > S$  (True)

Option (b)  $G \$ K \Rightarrow G > K$  (True)

Option (c)  $S \% K \Rightarrow S < K$  (False)

7. E

On decoding and combining the expressions, we get,

$P < Q < N = G \geq R > S$

Now we will check each option

Option (a)  $R \$ Q \Rightarrow R > Q$  (False)

Option (b)  $P \$ S \Rightarrow P > S$  (False)

Option (c)  $N \% S \Rightarrow N < S$  (False)

8. A

On decoding and combining the expressions, we get,

$P = Q > N \geq G = R \leq S$

Now we will check each option

Option (a)  $Q \$ R \Rightarrow Q > R$  (True)

Option (b)  $P * S \Rightarrow P \geq S$  (False)

Option (c)  $N @ S \Rightarrow N = S$  (False)

9. D

On decoding and combining the expressions, we get,

$G < H \geq N \geq P < M$

Now we will check each option

Option (a)  $H @ P \Rightarrow H = P$  (False)

Option (b)  $G \$ M \Rightarrow G > M$  (False)

Option (c)  $H \$ P \Rightarrow H > P$  (False)

Since  $H \geq P$ , either (a) or (c) will be correct.

10. B

On decoding and combining the expressions, we get,

$R < T = N \leq P > M$

Now we will check each option

Option (a)  $T * M \Rightarrow T \geq M$  (False)

Option (b)  $R \% P \Rightarrow R < P$  (True)

Option (c)  $R * M \Rightarrow R \geq M$  (False)

Solution (11-15)

A In this code language, there are some letter given we have to find the exact code used for them.

Example- **long**

Step I- first we will count the letters of that word that is 4, then we put digit 4 at the right end.

Step II- we will put the last letter of that word then it will like- G4

Step III- at the last step 'l' is coded for '#' (first letter of each word is coded by a specific symbol like here 'l' is coded for '#'. We can find the first coded symbol by looking at the other given words. So 'long' will be- #G4

11. B

12. A

13. A

14. B



15. C

(16-20)

Height	Person	Company	Country	Age
1	Q	Alibaba	India	35
2	S	Sony	US	35
3	R	Samsung	China	27
4	T	Apple	France	32
5	P	Google	Canada	29

16. B

17. C

18. A

19. E

20. D

21. B

This proves that taking selfies after landing is not an instinctive reaction and hence, an anomaly that deserves attention.

22. A

This provides support to the theory presented by the author

23. E

This is proved by the statement of the 32 year old refugee, as mentioned in the final line of the passage.

24. C

The passage only provides the information that students drink in school but seem to stop bingeing after they graduate. Option [A] is incorrect as there is no mention in the passage that students are only males and that they graduate at thirty. Options [B] and [D] are incorrect because it is not mentioned so in the passage. Since the passage talks about student groups - 'fraternity and sorority members' - a logical extension would be that it is these groups that prod students to begin drinking and with the breaking of these groups, the habit is also broken. Hence, [C].

25. A

Option A is a positive response to the situation. Hence, it weakens the preception of the people.

26. E

Use of English is continuously growing so it should be taught at primary levels in school and it should not be neglected at this level.

27. B

Majority of the teachers of the colleges signed a joint petition to the university complaining the disturbances.

28. D

If the ads are misleading, reading them carefully might not help at all, neither would contacting the university because the authorities would simple reinforce the lie.

29. B

There is no evidence in the statement to suggest that privatisation will help in the reduction of infant deaths. Hence, only Action II follows.

30. C

(A), (B) and (D) are irrelevant as nothing is mentioned about them. The district administration has issued a circular to make the farmers aware of hazards that indiscriminate use of pesticides poses to ground water and plead them to refrain from the same. Hence (3) is an assumption in the given statement.

31. C

The college should grant the admission after the step that shows the certificate depicting the marks to be above 60%.

32. D

As the eligibility is fulfilled then only the further procedure is done, but if the eligibility is not fulfilled then no clear instruction is indicated, that means the data is insufficient.

33. C

The most important condition that is missing in allotting the section A is that the selection should be made on what conditions, that thing is not defined or missing in the diagram.

34. E

The main requirement is to get admission in the section A and complete the 2 hours a day condition or 10 hours per weekend condition of extra class.

35. D

As the test is passed, the student will obtain the admission but if the test is not passed, then none of the information that is given in the options is true

**Solution (36-40):**

Vacant seat of row-2 faces the one who sits third to the right of Rahul. Only three persons sit between Rahul and Naresh. So we get 2 possibilities-

**Case-1**

Row-1/South	Naresh			Rahul	
Row-2/North		Vacant			

**Case-2**

Row-1/South		Naresh			Rahul
Row-2/North			Vacant		

Vacant seat of row-1 is neither an immediate neighbour of Naresh nor Rahul. Naresh likes Pink and faces the one who likes Green. One of the immediate neighbour of vacant seat of row-1 faces Jatin. Only three seats between Jatin and

the one who faces Omesh. From this Case-1 is invalid.

**Case-1**

Row-1/South	Naresh/Pink		Vacant		Rahul	
Row-2/North	Green	Vacant		E		

Only three seats between E and the one who faces O. From this Case-1 is invalid. Now continue with Case-2.

**Case-2**

Row-1/South	Omesh / Black	Naresh / Pink	Mohan / Grey	Vacant	Prateek / Purple	Rahul / White
Row 2/North	Ashish / Red	Green / Chinu	Vacant	Dinu / Yellow	Jatin / Orange	Bipin / Blue

Ashish sits second to the left of the one facing Mohan. The one who likes Black sits second to the right of Mohan. Bipin is not an immediate neighbour of Vacant seat of row-2. The person who likes Grey facing South Direction. The one who likes White sits at one of the extreme ends of the line. There are two seats between one who likes Grey and the one who likes White. The one who likes Red sits at one of the extreme ends of the line. There are three seats between one who likes Red and the one who likes Orange. The person who likes Yellow faces one of the immediate neighbours of the one who likes Grey. The person who likes Blue faces North Direction.

So Final arrangement will be likes this-

Row-1/South	Omesh / Black	Naresh / Pink	Mohan / Grey	Vacant	Prateek / Purple	Rahul / White
Row-2/North	Ashish / Red	Chinu / Green	Vacant	Dinu / Yellow	Jatin / Orange	Bipin / Blue

- 36. C
- 37. B
- 38. C
- 39. A

- 40. D
- 41. B

Resultant of first row,  $x -$

By rule iii,  $248/8 = 31$ , Now using rule i,  $x = 31 + 25 = 56$

Resultant of 2<sup>nd</sup> row,  $3 \times 56 \times 28 =$  by rule ii,  $3 \times 56 = 168$ , by rule iii,  $168/28 = 6$

- 42. E

Resultant of first row -

$$24 \times 3 = 72$$

$$72/18 = 4$$

$$4/2 = 2, \text{ Resultant of first row} = 2$$

Resultant of second row -

$$17 + 81 = 98$$

$$98/14 = 7$$

$$7 \times 8 = 56, \text{ Resultant of second row} = 56$$

$$\text{Product of two} = 56 \times 2 = 112$$

- 43. C

- 44. C

Resultant of first row is 144

$$7+9 = 16$$

$$16 \times 9 = 144$$

resultant of 2<sup>nd</sup> row is

$$72/8 = 9$$

$$9+25 = 34$$

$$\text{So, the sum is } 144 + 34 = 178$$

- 45. C

Resultant of first row is 60

$$4 \times 5 = 20$$

$$20 \times 3 = 60$$

$$P = 60$$

resultant of the second row is 5

$$60/6 = 10$$

$$10 - 5 = 5$$

$$\text{So the difference of both resultant is } 60 - 5 = 55$$