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Study Material for SBI PO 2019 | Complex Reasoning Seating Arrangement Puzzle for SBI PO 2019 at Smartkeeda

SEATING ARRANGEMENT QUIZ 69

Directions: Study the following information carefully and answer the questions given beside:

Seven persons – Mani, Basu, Shiv, Teer, Jadu, Pari and Ramu, were sitting in a straight line, facing towards north. These persons were born in different years – 1975, 1982, 1986, 1989, 1991, 1996 and 1999, but not necessarily in same order. These persons were born in different cities – Mandi, Jaipur, Agra, Ajmer, Noida, Jhansi and Pune, but not necessarily in same order.

Person who was born in 1986 in Ajmer was sitting on the extreme right end of the row.

Jadu was born in 1999 and was born in Pune.

Two persons were born between the persons who were born in Noida and Agra.

Basu, who was born in Jhansi, was sitting on the left of the person born in Jaipur.

Pari, who was born after Teer, was sitting on the left of Teer, who was born in Mandi.

At most three persons were sitting on the left of Mani, who was born in a leap year.

Teer wasn't sitting third from the left end of the row.

Three persons were sitting between Mani and Shiv, who was born in 1975.

Pari wasn't born in 1991.

Shiv wasn't born in Noida.

Only 1 person was born between person who was sitting on the immediate left of Shiv and the person who was sitting in the middle of the row.

1. Who among the following was sitting in the middle of the row?

- A. The one born in 1996
- B. The one born in 1982
- C. The one born in 1975
- D. The one born in 1999
- E. The one born in 1989

2. Which of the following combinations is/are correct?

- A. Mani – 1996 – Noida
- B. Pari – 1989 – Jaipur
- C. Teer – 1999 – Mandi
- D. Shiv – 1975 – Agra
- E. Basu – 1986 – Ajmer

3. How many person(s) were sitting between Jadu and Teer?

- A. None
- B. One
- C. Two
- D. Three
- E. More than three

4. Who among the following was sitting on the extreme left end of the row?

- A. Mani
- B. Basu
- C. Jadu
- D. Pari
- E. None of these

5. What is the position of the one born on 1982 with respect to Ramu?

- A. Immediate left
- B. Third to the right
- C. Immediate right
- D. Second to the left
- E. None of these

Correct answers:

1	2	3	4	5
E	D	B	B	D

Common Explanation:

Reference:

Seven persons – Mani, Basu, Shiv, Teer, Jadu, Pari and Ramu, were sitting in a straight line, facing towards north. These persons were born in different years – 1975, 1982, 1986, 1989, 1991, 1996 and 1999, but not necessarily in same order. These persons were born in different cities – Mandi, Jaipur, Agra, Ajmer, Noida, Jhansi and Pune, but not necessarily in same order.

Inference:

We will keep this information in mind while solving the puzzle.

Reference:

Person who was born in 1986 in Ajmer was sitting on the extreme right end of the row.

At most three persons were sitting on the left of Mani, who was born in a leap year.

Three persons were sitting between Mani and Shiv, who was born in 1975.

Inference:

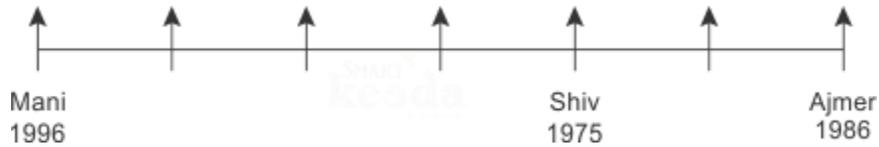
Here, there is only one leap year i.e. 1996 in all the given years.

At this point there are two possible scenarios in which the above hints can be used.

Case 1:



Case 2:



Reference:

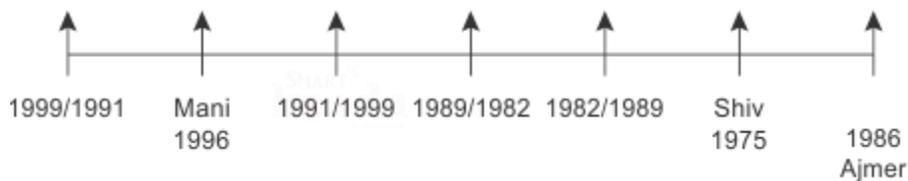
Only 1 person was born between person who was sitting on the immediate left of Shiv and the person who was sitting in the middle of the row.

Inference:

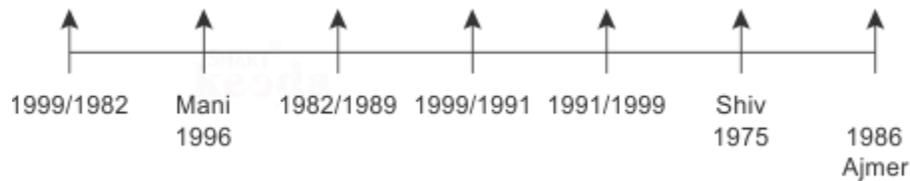
At this point we cannot use the above hints in case 2 because the person who was sitting on the immediate left of Shiv and the person who was sitting in the middle of the row are same in case 2 so we can say that case 2 is an invalid case.

After using the above hints in case 1, we have:

Case 1-A:



Case 1-B:



Reference:

Jadu was born in 1999 and was born in Pune.

Pari wasn't born in 1991.

Pari, who was born after Teer, was sitting on the left of Teer, who was born in Mandi.

Teer wasn't sitting third from the left end of the row.

Inference:

Here, we can say that Pari wasn't born in 1991; also Pari can't be born in 1999 and 1986 under the given conditions. So, the possible birth years of Pari are 1982 and 1989.

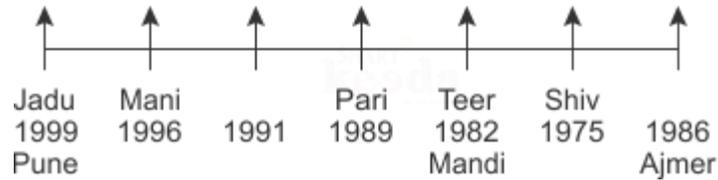
If Pari was born in 1982 then we have no possible birth year for Teer, as it is given that Pari was born after Teer. So we can surely say that Pari wasn't born in 1982.

Now, if Pari was born in 1989 then only possible birth year for Teer is 1982, as it is given that Pari was born after Teer. So we can surely say that Teer was born in 1982 and Pari was born in 1989.

At this point we cannot fix the position of Pari and Teer in case 1-B under the conditions so we can say that case 1-B is an invalid case.

Here, we have two possible scenarios in which above hints can be used in case 1-A accordingly.

Case 1-A (i):



Case 1-A (ii):



Reference:

Two persons were born between the persons who were born in Noida and Agra.

Basu, who was born in Jhansi, was sitting on the left of the person born in Jaipur.

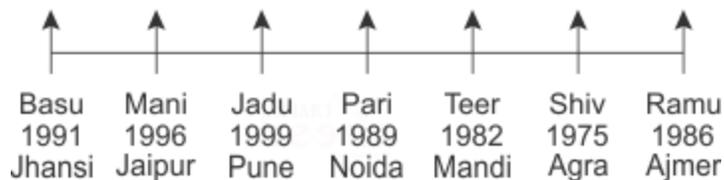
Shiv wasn't born in Noida.

Inference:

Here, we cannot fix the position of Basu in Case 1-A (i) according to the given hints so we can say that Case 1-A (i) is an invalid case.

After using the above hints, we have:

Case 1-A (ii):



Explanations:

1.

Following the final solution we can say that the one born in 1989 was sitting in the middle of the row.

Hence, the correct answer is option E.

2.

Following the final solution we can say that Shiv – 1975 – Agra is the correct combination.

Hence, the correct answer is option D.

3.

Following the final solution we can say that one person was sitting between Jadu and Teer.

Hence, the correct answer is option B.

4.

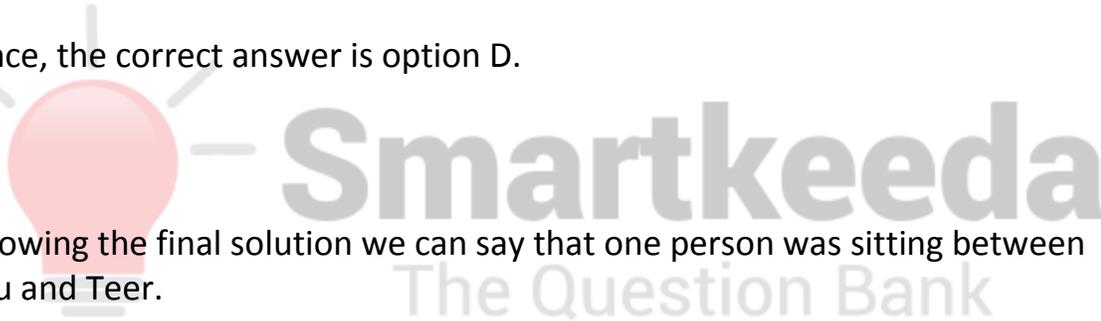
Following the final solution we can say that Basu was sitting on the extreme left end of the row.

Hence, the correct answer is option B.

5.

Following the final solution we can say that the one born on 1982 second to the left of Ramu.

Hence, the correct answer is option D.





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