Puzzle Test Questions for SBI PO Pre, IBPS PO Pre, IBPS Clerk Mains and SBI Clerk Mains Exams.

Set No 71

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

Seven students – Arav, Roma, Bhavy, Kaka, Pran, Nair and Manav were ranked one above the other. Each of these students scored different number of marks in mathematics ranging from 10-90. The rank of these students was determined on the basis of total marks therefore it might be possible that the student to have less marks in mathematics but was ranked above the student who scored better marks than him.

Not more than four students were ranked above Arav. Two students were ranked between Arav and the student who scored 41 marks, who was ranked below Box Arav. Marks scored by Kaka were thrice the number of marks scored by Roma. Bhavy scored 50 marks and was not ranked at the top. The number of marks scored by Manav was a perfect cube of a number. Only one student was ranked between the students who scored 41 marks and 39 marks. Kaka has scored less number of marks than Arav. One of the students scored 78 marks. Five students were ranked between student who scored 64 marks and Bhavy. Manav was ranked immediately above Pran and but scored fewer marks than Pran. Kaka was not ranked immediately above or below Roma. Three students were ranked between Kaka and Nair. Kaka was ranked above Nair.

1. Which of the following combinations represents the correct order of maximum and minimum marks obtained by a person?

A. Arav, Roma   B. Kaka, Manav   C. Arav, Manav   D. Nair, Roma   E. Nair, Pran

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

A. Manav – 64   B. Kaka – 39   C. Arav – 78   D. Pran – 41   E. All are correct

3. Who among the following is/are ranked between Manav and Roma?

A. No one   B. Pran, Nair   C. Kaka   D. Nair   E. None of these

4. How many student(s) were ranked above Pran?

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

5. What is the sum of the marks of Bhavy and Arav?

A. 114   B. 89   C. 128   D. 91   E. None of these

Correct Answers:

1	2	3	4	5
D	B	E	D	A

Common explanation:

Reference:
Seven students – Arav, Roma, Bhavy, Kaka, Pran, Nair and Manav were ranked one above the other. Each of these students scored different number of marks in mathematics ranging from 10-90. The rank of these students was determined on the basis of total marks therefore it might be possible that the student to have less marks in mathematics but was ranked above the student who scored better marks than him.

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

Reference:
Five students were ranked between student who scored 64 marks and Bhavy.
Bhavy scored 50 marks and was not ranked at the top.

Inference:
Using the above hints, we have:

Rank	Student	Marks
1		64
2		
3		
4		
5		
6		
7	Bhavy	50

Reference:
Not more than four students were ranked above Arav.
Two students were ranked between Arav and the student who scored 41 marks, who was ranked below Box Arav.

Inference:
At this point there are three possible scenarios in which above hints can be used accordingly.

Case I:

Rank	Student	Marks
1	Arav	64
2		
3		
4		41
5		
6		
7	Bhavy	50

Case II:

Rank	Student	Marks
1		64
2	Arav	
3		
4		
5		41
6		
7	Bhavy	50

Case III:

Rank	Student	Marks
1		64
2		
3	Arav	
4		
5		
6		41
7	Bhavy	50

Reference:

Three students were ranked between Kaka and Nair.
Kaka was ranked above Nair.

Inference:

Here, we have two possible scenarios in which the above hints can be used in case III accordingly.

Case I:

Rank	Student	Marks
1	Arav	64
2	Kaka	
3		
4		41
5		
6	Nair	
7	Bhavy	50

Case II:

Rank	Student	Marks
1	Kaka	64
2	Arav	
3		
4		
5	Nair	41
6		
7	Bhavy	50

Case III-A:

Rank	Student	Marks
1		64
2	Kaka	
3	Arav	
4		
5		
6	Nair	41
7	Bhavy	50

Case III-B:

Rank	Student	Marks
1	Kaka	64
2		
3	Arav	
4		
5	Nair	
6		41
7	Bhavy	50

Reference:

Manav was ranked immediately above Pran and but scored fewer marks than Pran.
Kaka was not ranked immediately above or below Roma.

Inference:

At this point, we cannot use the above hints in case III-A and III-B. So, we can say that **case III-A and III-B are invalid cases.**

Case I:

Rank	Student	Marks
1	Arav	64
2	Kaka	
3	Manav	
4	Pran	41
5	Roma	
6	Nair	
7	Bhavy	50

Case II:

Rank	Student	Marks
1	Kaka	64
2	Arav	
3	Manav	
4	Pran	
5	Nair	41
6	Roma	
7	Bhavy	50

Here, we will make a mental note that Manav scored less marks than Pran.

Reference:
Marks scored by Kaka were thrice the number of marks scored by Roma.
Only one student was ranked between the students who scored 41 marks and 39 marks.

Inference:
Here, we have two possible scenarios in which the above hints can be used in case I accordingly.

Case I-A:

Rank	Student	Marks
1	Arav	64
2	Kaka	39
3	Manav	
4	Pran	41
5	Roma	13
6	Nair	
7	Bhavy	50

Case I-B:

Rank	Student	Marks
1	Arav	64
2	Kaka	
3	Manav	
4	Pran	41
5	Roma	
6	Nair	39
7	Bhavy	50

Case II:

Rank	Student	Marks
1	Kaka	64
2	Arav	
3	Manav	39
4	Pran	
5	Nair	41
6	Roma	
7	Bhavy	50

Reference:

The number of marks scored by Manav was a perfect cube of a number.
Kaka has scored less number of marks than Arav.
One of the students scored 78 marks.

Inference:
At this point we cannot use the above hints in case I-B and case II because in case I-B neither of Kaka, Roma or Manav can score 78 marks and in case II we can see that Manav scored 39 marks which is not a perfect cube. So, we can say that **case I-B and case II are invalid cases.**

After, using the above hints case I-A can be redrawn as:

Case I-A:

Rank	Student	Marks
1	Arav	64
2	Kaka	39
3	Manav	27
4	Pran	41
5	Roma	13
6	Nair	78
7	Bhavy	50

Answers :

1. Following the final solution we can say that Nair, Roma represents the correct order of maximum and minimum marks obtained by a person.

Hence, the correct answer is option **D.**

2. Following the final solution we can say that the marks of Kaka was 39.

Hence, the correct answer is option **B.**

3. Following the final solution we can say that Pran is ranked between Manav and Roma.

Hence, the correct answer is option **E.**

4. Following the final solution we can say that three students were ranked above Pran.

Hence, the correct answer is option **D.**

5. Following the final solution we can say that the marks of Bhavy and Arav were 50 and 64.

Required Sum = 64 + 50 **= 114**

Hence, the correct answer is option **A.**