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# Puzzle test for IBPS Clerk Mains, SBI Clerk Mains, IBPS PO Pre and SBI PO Pre Exams.

## PT Set No 183

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

Six players namely A1, B2, C3, D4, E5 and F6 belong to different teams among India, Pakistan, Australia, and England, but not necessarily in the same order. Each of them scores different runs among 35, 50, 70, 85, 95 and 105, but not necessarily in the same order.

C3 belongs to India and scores 15 runs more than E5, who belongs to England.

One of the players, who belong to Australia, scores 20 runs more than C3.

D4 belongs to Pakistan and scores more runs than both the players, who belong to India.

F6 belongs to Australia and scores at least 30 runs more than the other player, who belongs to Australia.

Difference between the runs scored by B2 and E5 is minimum 25 runs.

B2 doesn't belong to Australia.

Sum of the runs scored by both the players, who belong to India, is not 135 runs.

**1. How many runs scored by A1?**

- A. 70 runs      B. 35 runs      C. 50 runs      D. Either A or B      E. Either A or C

**2. How many players scored more runs than B2?**

- A. One      B. Two      C. Three      D. Four      E. Five

**3. What is sum of the runs scored by two Indian players?**

- A. 155 runs      B. 120 runs      C. 130 runs      D. 145 runs      E. Can't be determined

**4. Which among the following combination is True?**

- A. A1-Australia-70 runs    B. B2-India-85 runs    C. E5-England-35 runs    D. C3-India-50 runs  
E. None of these

**5. What is the difference between the runs scored by England and Pakistan player?**

A. 70 runs

B. 35 runs

C. 60 runs

D. 25 runs

E. Can't be determined

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
C	E	B	E	D



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## Common explanations :

### References:

Each of them scores different runs among 35, 50, 70, 85, 95 and 105, but not necessarily in the same order.

C3 belongs to India and scores 15 runs more than E5, who belongs to England.

D4 belongs to Pakistan and scores more runs than both the players, who belong to India.

F6 belongs to Australia scores at least 30 runs more than the other player, who belongs to Australia.

B2 doesn't belong to Australia.

### Inferences:

From above statements,

### Direct information regarding teams from above statements.

C3 belongs to India, E5 belongs to England, D4 belongs to Pakistan and F6 belongs to Australia.

### Hints to find the other two teams.

Given, D4 belongs to Pakistan and scores more runs than both the players, who belong to India. This implies that there are 2 players from India and D4 (belongs to Pakistan) scores more runs than that of 2 players from India.

Given, F6 belongs to Australia scores at least 30 runs more than the other player, who belongs to Australia. This implies that there are 2 players from Australia and F6 (belongs to Australia) scores minimum 30 runs more than that of the other player, who belongs to Australia.

### Thus we conclude that there are 2 players from India and 2 players from Australia.

Given, B2 doesn't belong to Australia. Therefore we conclude that B2 belongs to India and A1 belongs to Australia.

Now from above statements we get,

Given,  $C3 = E5 + 15$  runs

Among given numbers we get two possibilities i.e.

I. If  $E5 = 35$  runs and then  $C3 = 35 + 15 = 50$  runs.

II. If  $E5 = 70$  runs and then  $C3 = 70 + 15 = 85$  runs.

Also, Given,  $F6 = A1 + \text{minimum } 30$  runs and  $D4$  (Pakistan)  $>$  B2, C3 (India)  
This can be calculated based on the other statements.

By using above information we get the following table as shown below,

Case-1			Case-2		
Players	Teams	Runs	Players	Teams	Runs
A1	Australia		A1	Australia	
B2	India		B2	India	
C3	India	50	C3	India	85
D4	Pakistan		D4	Pakistan	
E5	England	35	E5	England	70
F6	Australia		F6	Australia	

### References:

Each of them scores different runs among 35, 50, 70, 85, 95 and 105, but not necessarily in the same order.

One of the players, who belong to Australia, scores 20 runs more than C3.

F6 belongs to Australia scores at least 30 runs more than the other player, who belongs to Australia.

### Inferences:

From above statements,

Australia, [A1 or F6] = C3 + 20 runs

We know C3 scored either 50 or 85 runs. Now let check the possibilities for one of the Australian players.

If C3 scored 50 runs, then either A1 or F6 scores =  $50 + 20 = 70$  runs.

If C3 scored 85 runs, then either A1 or F6 scores =  $85 + 20 = 105$  runs.

### To find which Australian player scored 20 runs more than C3.

Given,  $F6 = A1 + \text{minimum } 30 \text{ runs}$

**Case-1:** Here, C3 scored 50 runs. If A1 scored 70 runs, then F6 must score 105 runs (only possibility) since F6 scores at least 30 runs more than A1. Here, F6 (105 runs) scored 35 runs more than A1 (70 runs). By using this information we get the following table as shown,

**Case-1-A:** Here, C3 scored 50 runs. If F6 scored 70 runs, then A1 must score 40 runs or less than 40 runs (only possibility) since F6 scores at least 30 runs more than A1. Among given numbers only 35 runs are there (less than 40) but E5 scores 35 runs. Thus this case fails to satisfy the given condition and it can be eliminated.

Case-1			Case-1-A [Eliminated]		
Players	Teams	Runs	Players	Teams	Runs

A1	Australia	70	A1	Australia	40/<40
B2	India		B2	India	
C3	India	50	C3	India	50
D4	Pakistan		D4	Pakistan	
E5	England	35	E5	England	35
F6	Australia	105	F6	Australia	70

**Case-2:** Here, C3 scored 85 runs. If A1 scored 105 runs, then F6 must score 135 runs or more than 135 runs since F6 scores at least 30 runs more than A1. Among given numbers the maximum score is 105 runs. Thus this case fails to satisfy the given condition and it can be eliminated.

**Case-2-A:** Here, C3 scored 85 runs. If F6 scored 105 runs, then A1 must score 75 runs or less than 75 runs (only possibility) since F6 scores at least 30 runs more than A1. Among given numbers we get two possibilities i.e.

I. If F6 scored 105 runs, A1 can score 50 runs. Then F6 scored 55 runs more than A1 (satisfied).

II. If F6 scored 105 runs, A1 can score 35 runs. Then F6 scored 70 runs more than A1 (satisfied)

**Note if F6 scored 105 runs, A1 can score 70 runs, but E5 scored 70 runs. Hence this is not possible.**

By using this information we get the following table as shown,

Case-2 [Eliminated]			Case-2-A (I)			Case-2-A (II)		
Players	Teams	Runs	Players	Teams	Runs	Players	Teams	Runs
A1	Australia	105	A1	Australia	50	A1	Australia	35
B2	India		B2	India		B2	India	
C3	India	85	C3	India	85	C3	India	85
D4	Pakistan		D4	Pakistan		D4	Pakistan	
E5	England	70	E5	England	70	E5	England	70
F6	Australia	135/>135	F6	Australia	105	F6	Australia	105

#### References:

Each of them scores different runs among 35, 50, 70, 85, 95 and 105, but not necessarily in the same order.

D4 belongs to Pakistan and scores more runs than both the players, who belong to India.

Sum of the runs scored by both the players, who belong to India, is not 135 runs.

Difference between the runs scored by B2 and E5 is minimum 25 runs.

#### Inferences:

From above statements,

**Case-1:** Remaining runs left in this case are 85 and 95. Given, D4 (Pakistan) scored more than B2 and C3 (both of them are from India). Therefore to satisfy this condition, D4 must score 95 runs and B2 will score 85 runs. Given, sum of the runs scored by both the players, who belong to India, is not 135 runs. In this case, B2 scores

85 runs and C3 scores 50 runs [B2 + C3, sum = 85 + 50 = 135 runs, which is not possible]. Hence this case can be eliminated.

**Case-2-A-(II):** Remaining runs left in this case are 50 and 95. Given, D4 (Pakistan) scored more than B2 and C3 (both of them are from India). Therefore to satisfy this condition, D4 must score 95 runs and B2 will score 50 runs. Given, sum of the runs scored by both the players, who belong to India, is not 135 runs. In this case, B2 scores 50 runs and C3 scores 85 runs [B2 + C3, sum = 50 + 85 = 135 runs, which is not possible]. Hence this case can be eliminated.

Case-1 [Eliminated]			Case-2-A (II) [Eliminated]		
Players	Teams	Runs	Players	Teams	Runs
A1	Australia	70	A1	Australia	35
B2	India	85	B2	India	50
C3	India	50	C3	India	85
D4	Pakistan	95	D4	Pakistan	95
E5	England	35	E5	England	70
F6	Australia	105	F6	Australia	105

**Case-2-A (I):** Remaining runs left in this case are 35 and 95. Given, D4 (Pakistan) scored more than B2 and C3 (both of them are from India). Therefore to satisfy this condition, D4 must score 95 runs and B2 will score 35 runs. Here all conditions satisfied i.e.

Given, sum of the runs scored by both the players, who belong to India, is not 135 runs. In this case, B2 scores 35 runs and C3 scores 85 runs [B2 + C3, sum = 35 + 85 = 120 runs]

Also given, the difference between the runs scored by B2 and E5 is minimum 25 runs. In this case, B2 scores 35 runs and E5 scores 70 runs. [E5 – B2, difference = 70 – 35 = 35 runs]

Thus all the given condition satisfied and we get the completed table.

Case-2-A (I)		
Players	Teams	Runs
A1	Australia	50
B2	India	35
C3	India	85
D4	Pakistan	95
E5	England	70
F6	Australia	105

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## Answers :

1. Following the common explanation, we get "A1 scored 50 runs".

Hence, option C is correct.

- 2.** Following the common explanation, we get "Five".

5 players scored more runs than B2.

Hence, option E is correct.

- 3.** Following the common explanation, we get "120 runs".

B2 and C3 are the Indian players.

B2 = 35 runs & C3 = 85 runs.

Sum = 35 + 85 = 120 runs.

Hence, option B is correct.

- 4.** Following the common explanation, we get "None of these".

All the combinations are false.

Hence, option E is correct.

- 5.** Following the common explanation, we get "25 runs".

E5-England-70 runs & D4-Pakistan-95 runs.

Difference = 95 – 70 = 25 runs.

Hence, option D is correct.







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