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PUZZLE TEST SET NO. 88

Directions: These questions are based on the following information.

In a class, six students - P, Q, R, S, T and U got the top six ranks such that no two of them got the same rank and they are wearing a different coloured dresses among - red, blue, green, yellow, orange and white. We know the following information:

- (i) The number of students whose ranks are between the ranks of S and the person who is wearing orange coloured dress is two.
- (ii) R is wearing yellow coloured dress but U is not wearing green coloured dress.
- (iii) At least one student got a rank between the ranks of any two of Q, T and U and at most one of Q, T and U got either the first rank or the sixth rank.
- (iv) The students wearing blue and orange coloured dresses got the consecutive ranks.
- (v) The number of students whose ranks are between the ranks of T and the student wearing white coloured dress is two.

1. How many students got the ranks between the ranks of the students wearing orange and white colored dresses?

- A. 0 B. 1 C. 2 D. 3 E. Can't be determined

2. Who is wearing red coloured dress?

- A. Q B. S C. T D. U E. Can't be determined

3. Which coloured dress is T wearing?

- A. Orange B. Green C. Blue D. Red E. Can't be determined

4. If the names of the person are to be arranged in alphabetical order (starting from the first rank) then who among the following was sitting between the one who was wearing Red colored dress and the one who scored fourth rank?

- A. P B. U C. S D. T E. None of these

5. Who got the rank 3 and rank 5 respectively?

- A. U,R B. T,S C. Q,P D. R,T E. None of these

Correct answers:

1	2	3	4	5
C	D	A	D	C

Common Explanation:**Reference:**

(iii) At least one student got a rank between the ranks of any two of Q, T and U and at most one of Q, T and U got either the first rank or the sixth rank.

Inference:

Here, we have two possible scenarios in which we can use the above hints accordingly.

Scenario 1:

Rank	Person	Colour
1	Q/T/U	
2		
3	T/Q/U	
4		
5	U/T/Q	
6		

Scenario 2:

Rank	Person	Colour
1		
2	U/T/Q	
3		
4	T/Q/U	
5		

6	Q/T/U	
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Reference:

(i) The number of students whose ranks are between the ranks of S and the person who is wearing orange colored dress is two.

(iv) The students wearing blue and orange colored dresses got the consecutive ranks.

(ii) R is wearing yellow colored dress but U is not wearing green colored dress.

Inference:

At this point there are several possibilities under which the above hints can be used.

Scenario 1:

	Possibility 1		Possibility 2		Possibility 3	
Rank	Person	Colour	Person	Colour	Person	Colour
1	Q/T/U		Q/T/U	Orange	Q/T/U	
2	S					
3	T/Q/U		T/Q/U		T/Q/U	Orange
4			S			
5	U/T/Q	Orange	U/T/Q		U/T/Q	
6					S	

Scenario 2:

	Possibility 4		Possibility 5		Possibility 6	
Rank	Person	Colour	Person	Colour	Person	Colour
1	S					
2	U/T/Q		U/T/Q		U/T/Q	Orange
3			S			
4	T/Q/U	Orange	T/Q/U		T/Q/U	

5					S	
6	Q/T/U		Q/T/U	Orange	Q/T/U	

Here, we can say that anyone among U, T and Q is wearing Orange colored dress and we also have a hint that R is wearing yellow colored dress.

As, U, T, Q, R and S are out of scenario for Blue colored dress so we can say that P must be wearing blue colored dress.

Person	Colour
U	Orange
T	
Q	
S	
P	Blue
R	Yellow

Here, we will make a mental note of the information which is U was not wearing a green colored dress.

Reference:

(v) The number of students whose ranks are between the ranks of T and the student wearing white colored dress is two.

Inference:

At this point there are several possibilities under which the above hints can be used.

Here, we will use a previous hint which was '(i) The number of students whose ranks are between the ranks of S and the person who is wearing orange colored dress is two.'

Scenario 1:

	Possibility A	Possibility B	Possibility C
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Rank	Person	Colour	Person	Colour	Person	Colour
1	T		Q/U		U /Q	
2						White
3	Q/U		T		Q/U	
4		White				
5	U/Q		U/Q		T	
6				White		

Scenario 2:

	Possibility D		Possibility E		Possibility F	
Rank	Person	Colour	Person	Colour	Person	Colour
1						
2	T		Q/U		U/Q	
3						White
4	Q/U		T		Q/U	
5		White				
6	U/Q		U/Q		T	

As in all of the possibilities we can see that no one among Q, T and U is wearing a White colored dress so we can say that S must be wearing a White colored dress.

Person	Colour
U	Orange
T	
Q	
S	White
P	Blue
R	Yellow

Now, we will use a previous hint which was '(i) The number of students whose ranks are between the ranks of S and the person who is wearing orange colored dress is two.'

Scenario 1:

	Possibility A		Possibility B		Possibility C	
Rank	Person	Colour	Person	Colour	Person	Colour
1	T	Orange	Q/U		U /Q	
2					S	White
3	Q/U		T	Orange	Q/U	
4	S	White				
5	U/Q		U/Q		T	Orange
6			S	White		

Scenario 2:

	Possibility D		Possibility E		Possibility F	
Rank	Person	Colour	Person	Colour	Person	Colour
1			S	White		
2	T	Orange	Q/U		U/Q	
3					S	White
4	Q/U		T	Orange	Q/U	
5	S	White				
6	U/Q		U/Q		T	Orange

Here, we can see that the color of the dress of T in all of the possibilities is Orange so we can say that the color of the dress of T must be Orange.

Person	Colour
U	Red/Green
Q	
T	Orange
S	White
P	Blue
R	Yellow

Now, the possible colors for the dresses of U and Q are Green and Red but previously we have a hint that U was not wearing a Green colored dress so at this point the color of the dress of U must be Red and after we can say that the color of the dress of Q was Green.

Person	Colour
U	Red
T	Orange
Q	Green
S	White
P	Blue
R	Yellow



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Explanations:

1.

The following common explanation, we get that two students got the ranks between the ranks of the students wearing orange and white colored dresses.

Hence, option C is correct.

2.

The following common explanation, we get that U is wearing red coloured dress.

Hence, option D is correct.

3.

The following common explanation, we get that T is wearing orange colored dress.

Hence, option A is correct.

4.

Following common explanation and applying the given conditions we get:

Rank	Person	Colour
1	P	Blue
2	Q	Green
3	R	Yellow
4	S	White
5	T	Orange
6	U	Red

Here, we can see that sitting between the one who was wearing Red colored dress and the one who scored fourth rank.

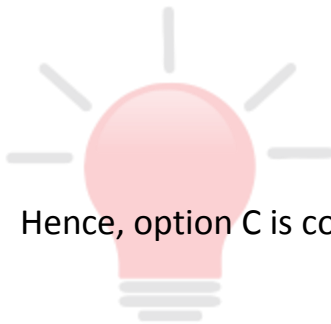
Option D is hence the correct answer.

5.

In the following common explanation, it is clear that Q and P got the rank 3 and rank 5 respectively.

Rank	Person	Colour
1	U	Red
2	T	Orange
3	Q	Green
4	S	White
5	P	Blue
6	R	Yellow

Hence, option C is correct.



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