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11 friends M, N, O, P, Q, R, S, T, U, V & W are sitting in I row of stadium watching a cricket match.

Given → T is to the immidiate left of P & third to the right of U.

V is the immidiate neighbour of M and N and third to the left of S.

M is the second to the right of Q, who is at one of the ends.

R is sitting next to the right of P and P is second to the right of O.

From above Given conditions we get →

U_OTPR — ①

Q_MVN_S — ② {Q is at corner}

Now, as W is left to fill so,

if Q is b/w U & O ⇒ Q will not be at corner

So, Q is not b/w U & O

⇒ S will lie b/w U & O

∴ Combining ① & ② and putting W b/w O & M

QWMVNUSOTPR as finall sitting patte

Ans Q.① → U is sitting in center (option 4)

Ans ② → OTPR are sitting right of S. (option 2)

Ans ③ N is sitting b/w V & U (option 3)

Ans ④ O & P are immidiate neighbours of T (option 1)

Q-5 → If O and P, O and N, M and T, and W and R interc their positions then which of the following pairs of friends is sitting at the ends?

1. P and O 2. Q and R 3. P and W 4. W and R.

Ans → On interchanging we get → PRTVOUSNMQW

Q-6 → A man has 53 socks in his drawer;
21 identical blue
15 identical black
17 identical red
The lights are out and he is completely in the dark. How many socks must he take out to make 100% certain he has at least one pair of black socks.

Ans → If man take out 17 socks ⇒ it is not guaranteed that he has one pair of black socks
If he further brings 21 shocks ⇒ even now it can not be guaranteed that he has a pair of black socks.
If he take two more socks further then it can be guaranteed that he will definitely have minimum one pair of black socks.
⇒ 17 + 21 + 2 = 40 socks

∴ 40 socks must be taken out by man to become 100% certain that he has at least one pair of black socks.