

Reasoning

Order & Ranking

Level-2

Q1 Directions : Study the following information carefully and answer the below questions

In the class, V gets fifth rank from the top. Only one person is ranked between V and N. Q gets 8th rank from the bottom. S gets two ranks after Q. Only three persons are ranked between V and Q. N gets exactly in the middle rank of V and Q. L is the top scorer.

How many students are ranked between L and Q?

- (A) Six (B) Seven
(C) Five (D) Four
(E) Three

Q2 Directions : Study the following information carefully and answer the below questions

In the class, V gets fifth rank from the top. Only one person is ranked between V and N. Q gets 8th rank from the bottom. S gets two ranks after Q. Only three persons are ranked between V and Q. N gets exactly in the middle rank of V and Q. L is the top scorer.

What is the rank of N from the bottom?

- (A) Eleventh (B) Sixth
(C) Seventh (D) Ninth
(E) Tenth

Q3 Directions : Study the following information carefully and answer the below questions.

Five persons – P, Q, R, S, and T participated in three different events viz.- Comedy, Singing, and Painting. Each person gets different ranks from 1 to 5 in each event. No person gets the same rank in any of the events. Rank 1 is the highest whereas Rank 5 is the lowest. R gets rank four in painting. P gets consecutive rank in descending order in Comedy, Singing, and Painting respectively. T gets an immediately lower rank in

Singing as compared to the rank of P in Singing. Neither P nor S gets rank 1 in comedy. S and P get the same rank in Painting and Comedy respectively. The rank of R in Painting is two ranks lower than the rank of S in Singing. The sum of ranks of S in Singing and Painting is equal to the rank of Q in Comedy. The rank of R in Comedy and rank of T in Painting is the same. The rank of T in Comedy is an immediately higher rank than the rank of T in Painting. The rank of Q in Singing is an immediately higher rank than the rank of S in Comedy.

The sum of the ranks of who among the following person is third highest taken all three events together?

- (A) Q (B) P
(C) R (D) S
(E) T

Q4 Directions : Study the following information carefully and answer the below questions.

Five persons – P, Q, R, S, and T participated in three different events viz.- Comedy, Singing, and Painting. Each person gets different ranks from 1 to 5 in each event. No person gets the same rank in any of the events. Rank 1 is the highest whereas Rank 5 is the lowest. R gets rank four in painting. P gets consecutive rank in descending order in Comedy, Singing, and Painting respectively. T gets an immediately lower rank in Singing as compared to the rank of P in Singing. Neither P nor S gets rank 1 in comedy. S and P get the same rank in Painting and Comedy respectively. The rank of R in Painting is two ranks lower than the rank of S in Singing. The sum of ranks of S in Singing and Painting is equal to the rank of Q in Comedy. The rank of R in Comedy



and rank of T in Painting is the same. The rank of T in Comedy is an immediately higher rank than the rank of T in Painting. The rank of Q in Singing is an immediately higher rank than the rank of S in Comedy.

Which of the following is the correct relation in singing?

- (A) $T < P < S < R$
- (B) $S > P > Q > T$
- (C) $T < S < R < Q$
- (D) $S < T < R < P$
- (E) None of these

Q5 Directions : Study the following information carefully and answer the below questions.

Five persons – P, Q, R, S, and T participated in three different events viz.- Comedy, Singing, and Painting. Each person gets different ranks from 1 to 5 in each event. No person gets the same rank in any of the events. Rank 1 is the highest whereas Rank 5 is the lowest. R gets rank four in painting. P gets consecutive rank in descending order in Comedy, Singing, and Painting respectively. T gets an immediately lower rank in Singing as compared to the rank of P in Singing. Neither P nor S gets rank 1 in comedy. S and P get the same rank in Painting and Comedy respectively. The rank of R in Painting is two ranks lower than the rank of S in Singing. The sum of ranks of S in Singing and Painting is equal to the rank of Q in Comedy. The rank of R in Comedy and rank of T in Painting is the same. The rank of T in Comedy is an immediately higher rank than the rank of T in Painting. The rank of Q in Singing is an immediately higher rank than the rank of S in Comedy.

Which of the following statement is not true?

- (A) R gets second highest rank in comedy
- (B) S doesn't get rank 5 in any event
- (C) Q gets rank 5 in Comedy
- (D) Both P and T doesn't get rank 3 in singing
- (E) All are true

Q6

Directions : Study the following information carefully and answer the below questions.

Five persons – P, Q, R, S, and T participated in three different events viz.- Comedy, Singing, and Painting. Each person gets different ranks from 1 to 5 in each event. No person gets the same rank in any of the events. Rank 1 is the highest whereas Rank 5 is the lowest. R gets rank four in painting. P gets consecutive rank in descending order in Comedy, Singing, and Painting respectively. T gets an immediately lower rank in Singing as compared to the rank of P in Singing. Neither P nor S gets rank 1 in comedy. S and P get the same rank in Painting and Comedy respectively. The rank of R in Painting is two ranks lower than the rank of S in Singing. The sum of ranks of S in Singing and Painting is equal to the rank of Q in Comedy. The rank of R in Comedy and rank of T in Painting is the same. The rank of T in Comedy is an immediately higher rank than the rank of T in Painting. The rank of Q in Singing is an immediately higher rank than the rank of S in Comedy.

Who among the following person gets rank 1 in comedy?

- (A) P
- (B) The one who gets rank 4 in Painting
- (C) Q
- (D) T
- (E) R

Q7 Directions : Study the following information carefully and answer the below questions.

Five persons – P, Q, R, S, and T participated in three different events viz.- Comedy, Singing, and Painting. Each person gets different ranks from 1 to 5 in each event. No person gets the same rank in any of the events. Rank 1 is the highest whereas Rank 5 is the lowest. R gets rank four in painting. P gets consecutive rank in descending order in Comedy, Singing, and Painting respectively. T gets an immediately lower rank in Singing as compared to the rank of P in Singing. Neither P nor S gets rank 1 in comedy. S and P



get the same rank in Painting and Comedy respectively. The rank of R in Painting is two ranks lower than the rank of S in Singing. The sum of ranks of S in Singing and Painting is equal to the rank of Q in Comedy. The rank of R in Comedy and rank of T in Painting is the same. The rank of T in Comedy is an immediately higher rank than the rank of T in Painting. The rank of Q in Singing is an immediately higher rank than the rank of S in Comedy.

Who among the following person gets second lowest rank in Singing?

- (A) S (B) Q
(C) T (D) P
(E) R

Q8 Directions: Analyze the data carefully and answer the questions accordingly.

Five people have a different height and likes different colors. M does not like pink. O is shorter than the one, who like yellow. T is taller than H and shorter than O, who does not like white. Two people are taller than G. The one, who likes blue, is shorter than the one, who likes white. H does not like green. The one, who likes green, is shorter than G.

Find the correct combination from the following.

- (A) H - Yellow
(B) G - Blue
(C) M - Yellow
(D) O - White
(E) None is correct

Q9 Directions: Analyze the data carefully and answer the questions accordingly.

Five people have a different height and likes different colors. M does not like pink. O is shorter than the one, who like yellow. T is taller than H and shorter than O, who does not like white. Two people are taller than G. The one, who likes blue, is shorter than the one, who likes white. H does not like green. The one, who likes green, is shorter than G.

How many people are shorter than M?

- (A) 3 (B) 2
(C) 4 (D) 1
(E) None

Q10 Directions: Analyze the data carefully and answer the questions accordingly.

Five people have a different height and likes different colors. M does not like pink. O is shorter than the one, who like yellow. T is taller than H and shorter than O, who does not like white. Two people are taller than G. The one, who likes blue, is shorter than the one, who likes white. H does not like green. The one, who likes green, is shorter than G.

Who among the following likes pink?

- (A) T (B) H
(C) G (D) O
(E) None of these

Q11 Directions: Analyze the data carefully and answer the questions accordingly.

Six people F, G, H, J, K, and L are there of different weights. The weight of L is less than 60kg. The one, who is the second heaviest, is 72kg. F is lighter than J and heavier than G, who is not the lightest. The one, who is the second lightest, is 48kg. J is lighter than K. Only one person is heavier than K.

How many people are lighter than H?

- (A) 1 (B) 2
(C) 3 (D) 5
(E) None of these

Q12 Directions: Analyze the data carefully and answer the questions accordingly.

Six people F, G, H, J, K, and L are there of different weights. The weight of L is less than 60kg. The one, who is the second heaviest, is 72kg. F is lighter than J and heavier than G, who is not the lightest. The one, who is the second lightest, is 48kg. J is lighter than K. Only one person is heavier than K.

If the weight of G and F is 103kg then what is difference between the weights of K and F?

- (A) 14kg (B) 17kg



- (C) 20kg (D) 19kg
(E) None of these

Q13 Directions: Analyze the data carefully and answer the questions accordingly.

Six people F, G, H, J, K, and L are there of different weights. The weight of L is less than 60kg. The one, who is the second heaviest, is 72kg. F is lighter than J and heavier than G, who is not the lightest. The one, who is the second lightest, is 48kg. J is lighter than K. Only one person is heavier than K.

Who is the heaviest?

- (A) F (B) J
(C) H (D) L
(E) None of these

Q14 Directions: Analyze the data carefully and answer the questions accordingly.

Six people has different number of pens. H has less number of pens than L. U does not have the maximum pens. The one, who has second lowest pens has 30 pens. H has more pens than T and K. Z has more pens than L, who has less number of pens than U.

How many pens does K has?

- (A) 29
(B) 15
(C) 18
(D) 23
(E) Can't be determined

Q15 Directions: Analyze the data carefully and answer the questions accordingly.

Six people has different number of pens. H has less number of pens than L. U does not have the maximum pens. The one, who has second lowest pens has 30 pens. H has more pens than T and K. Z has more pens than L, who has less number of pens than U.

How many people has more pens than L?

- (A) 3 (B) 2
(C) 1 (D) None
(E) None of these

Q16 Directions: Analyze the data carefully and answer the questions accordingly.

Six people has different number of pens. H has less number of pens than L. U does not have the maximum pens. The one, who has second lowest pens has 30 pens. H has more pens than T and K. Z has more pens than L, who has less number of pens than U.

Who has the maximum pens?

- (A) T (B) H
(C) L (D) Z
(E) None of these

Q17 Directions: Consider the following information and answer the questions accordingly.

Six police officers A, B, C, D, E, and F work in the same city. Their designations are different and the decreasing order of their designations is DGP, ADGP, IGP, DIG, SSP and ASP. Only two officers are ranked between D and F. At least two officers are senior to B. A is immediate senior to D and E is immediate junior to C. The number of officers senior to A is an even number. A is not the person with seniormost designation.

How many officers are ranked above B?

- (A) 5 (B) 3
(C) 1 (D) 4
(E) 2

Q18 Directions: Consider the following information and answer the questions accordingly.

Six police officers A, B, C, D, E, and F work in the same city. Their designations are different and the decreasing order of their designations is DGP, ADGP, IGP, DIG, SSP and ASP. Only two officers are ranked between D and F. At least two officers are senior to B. A is immediate senior to D and E is immediate junior to C. The number of officers senior to A is an even number. A is not the person with seniormost designation.



Select the correct pair.

- (A) ASP - C (B) SSP - A
(C) ADGP - B (D) DGP - F
(E) None of these

Q19 Directions: Study the following data carefully and answer the questions accordingly.

Eight people (K,L,M,N,O,P,Q and R) go to Paris. L goes before P but after O. Two people go between R and P. R goes before L. Only one person goes before N. R doesn't go before N. P goes immediately before Q. No one goes after M. Two people go between K and N.

How many people go to Paris between O and M?

- (A) Six (B) Five
(C) Four (D) Three
(E) None of these

Q20 Directions: Study the following data carefully and answer the questions accordingly.

Eight people (K,L,M,N,O,P,Q and R) go to Paris. L goes before P but after O. Two people go between R and P. R goes before L. Only one person goes before N. R doesn't go before N. P goes immediately before Q. No one goes after M. Two people go between K and N.

Who goes immediately after K?

- (A) N (B) P
(C) Q (D) M
(E) L

Q21 Directions: Study the following data carefully and answer the questions accordingly.

Eight people (K,L,M,N,O,P,Q and R) go to Paris. L goes before P but after O. Two people go between R and P. R goes before L. Only one person goes before N. R doesn't go before N. P goes immediately before Q. No one goes after M. Two people go between K and N.

Who goes to Paris immediately after R?

- (A) M (B) L
(C) K (D) Q
(E) O

Q22 Directions: Consider the following information and answer the questions accordingly.

Six police officers A, B, C, D, E, and F work in the same city. Their designations are different and the decreasing order of their designations is DGP, ADGP, IGP, DIG, SSP and ASP. Only two officers are ranked between D and F. At least two officers are senior to B. A is immediate senior to D and E is immediate junior to C. The number of officers senior to A is an even number. A is not the person with seniormost designation.

Which of the following statements is/are true?

- I. F is senior to C.
II. E is ranked as the ADGP.
III. Only one officer is ranked below A.
(A) Only I
(B) Only II
(C) Only I and II
(D) Only I and III
(E) Only II and III



Answer Key

Q1 (B)

Q2 (E)

Q3 (E)

Q4 (A)

Q5 (E)

Q6 (D)

Q7 (D)

Q8 (C)

Q9 (C)

Q10 (D)

Q11 (D)

Q12 (B)

Q13 (C)

Q14 (E)

Q15 (B)

Q16 (D)

Q17 (B)

Q18 (B)

Q19 (A)

Q20 (B)

Q21 (B)

Q22 (E)



Hints & Solutions

Q1 Text Solution:

V gets fifth rank from the top.

$$> > > > V$$

only one person is ranked between V and N.

 $V > N$

Q gets 8th rank from the bottom.

Q> > > > > > >

S gets two ranks after Q.

$$Q > S$$

Only three persons are ranked between V and Q

$$V > > > Q$$

N gets exactly in the middle rank of V and Q. L is the top scorer.

L> > > >V> >N> >Q> >S> > > > >

Q2 Text Solution:

V gets fifth rank from the top.

> > > >V

only one person is ranked between V and N.

 $V > N$

Q gets 8th rank from the bottom.

Q> > > > > > >

S gets two ranks after Q.

$$Q > S$$

Only three persons are ranked between V and Q

$$V > \dots > Q$$

N gets exactly in the middle rank of V and Q. L is the top scorer.

L> > > >V> >N> >Q> >S> > > > >

Q3 Text Solution:

We have: R gets rank four in painting. P gets consecutive rank in descending order in Comedy, Singing, and Painting respectively. T gets an immediately lower rank in Singing as compared to the rank of P in Singing. Neither P nor S gets rank 1 in comedy. That means, P gets rank 3 in Comedy. Based on the above given information we have:

| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | | | |
| R | | | 4 |
| S | | | |
| T | | 5 | |

Again, we have: S and P get the same rank in Painting and Comedy respectively. The rank of R in Painting is two ranks lower than the rank of S in Singing. The sum of ranks of S in Singing and Painting is equal to the rank of Q in Comedy. The rank of R in Comedy and rank of T in Painting is the same.

Thus, the only possible rank of T in painting is either 1 or 2. Based on the above given information we have:

| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | 5 | | 2/1 |
| R | 1/2 | | 4 |
| S | | 2 | 3 |
| T | | 5 | 1/2 |

Again, we have: The rank of T in Comedy is immediately higher than the rank of T in Painting. Thus, T gets rank 1 in Comedy. The rank of Q in Singing is immediately higher than the rank of S in Comedy. That means, Q gets rank 3 in singing. Based on the above given information we have:



| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | 5 | 3 | 1 |
| R | 2 | 1 | 4 |
| S | 4 | 2 | 3 |
| T | 1 | 5 | 2 |

Q4 Text Solution:

We have: R gets rank four in painting. P gets consecutive rank in descending order in Comedy, Singing, and Painting respectively. T gets an immediately lower rank in Singing as compared to the rank of P in Singing. Neither P nor S gets rank 1 in comedy. That means, P gets rank 3 in Comedy. Based on the above given information we have:

| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | | | |
| R | | | 4 |
| S | | | |
| T | | 5 | |

Again, we have: S and P get the same rank in Painting and Comedy respectively. The rank of R in Painting is two ranks lower than the rank of S in Singing. The sum of ranks of S in Singing and Painting is equal to the rank of Q in Comedy. The rank of R in Comedy and rank of T in Painting is the same.

Thus, the only possible rank of T in painting is either 1 or 2. Based on the above given information we have:

| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | 5 | | 2/1 |
| R | 1/2 | | 4 |
| S | | 2 | 3 |
| T | | 5 | 1/2 |

Again, we have: The rank of T in Comedy is immediately higher than the rank of T in Painting. Thus, T gets rank 1 in Comedy. The rank of Q in Singing is immediately higher than the rank of S in Comedy. That means, Q gets rank 3 in singing. Based on the above given information we have:

| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | 5 | 3 | 1 |
| R | 2 | 1 | 4 |
| S | 4 | 2 | 3 |
| T | 1 | 5 | 2 |

Q5 Text Solution:

We have: R gets rank four in painting. P gets consecutive rank in descending order in Comedy, Singing, and Painting respectively. T gets an immediately lower rank in Singing as compared to the rank of P in Singing. Neither P nor S gets rank 1 in comedy. That means, P gets rank 3 in Comedy. Based on the above given information we have:



| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | | | |
| R | | | 4 |
| S | | | |
| T | | 5 | |

Again, we have: S and P get the same rank in Painting and Comedy respectively. The rank of R in Painting is two ranks lower than the rank of S in Singing. The sum of ranks of S in Singing and Painting is equal to the rank of Q in Comedy. The rank of R in Comedy and rank of T in Painting is the same.

Thus, the only possible rank of T in painting is either 1 or 2. Based on the above given information we have:

| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | 5 | | 2/1 |
| R | 1/2 | | 4 |
| S | | 2 | 3 |
| T | | 5 | 1/2 |

Again, we have: The rank of T in Comedy is immediately higher than the rank of T in Painting. Thus, T gets rank 1 in Comedy. The rank of Q in Singing is immediately higher than the rank of S in Comedy. That means, Q gets rank 3 in singing. Based on the above given information we have:

| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | 5 | 3 | 1 |
| R | 2 | 1 | 4 |
| S | 4 | 2 | 3 |
| T | 1 | 5 | 2 |

Q6 Text Solution:

We have: R gets rank four in painting. P gets consecutive rank in descending order in Comedy, Singing, and Painting respectively. T gets an immediately lower rank in Singing as compared to the rank of P in Singing. Neither P nor S gets rank 1 in comedy. That means, P gets rank 3 in Comedy. Based on the above given information we have:

| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | | | |
| R | | | 4 |
| S | | | |
| T | | 5 | |

Again, we have: S and P get the same rank in Painting and Comedy respectively. The rank of R in Painting is two ranks lower than the rank of S in Singing. The sum of ranks of S in Singing and Painting is equal to the rank of Q in Comedy. The rank of R in Comedy and rank of T in Painting is the same.

Thus, the only possible rank of T in painting is either 1 or 2. Based on the above given information we have:



| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | 5 | | 2/1 |
| R | 1/2 | | 4 |
| S | | 2 | 3 |
| T | | 5 | 1/2 |

Again, we have: The rank of T in Comedy is immediately higher than the rank of T in Painting. Thus, T gets rank 1 in Comedy. The rank of Q in Singing is immediately higher than the rank of S in Comedy. That means, Q gets rank 3 in singing. Based on the above given information we have:

| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | 5 | 3 | 1 |
| R | 2 | 1 | 4 |
| S | 4 | 2 | 3 |
| T | 1 | 5 | 2 |

Q7 Text Solution:

We have: R gets rank four in painting. P gets consecutive rank in descending order in Comedy, Singing, and Painting respectively. T gets an immediately lower rank in Singing as compared to the rank of P in Singing. Neither P nor S gets rank 1 in comedy. That means, P gets rank 3 in Comedy. Based on the above given information we have:

| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | | | |
| R | | | 4 |
| S | | | |
| T | | 5 | |

Again, we have: S and P get the same rank in Painting and Comedy respectively. The rank of R in Painting is two ranks lower than the rank of S in Singing. The sum of ranks of S in Singing and Painting is equal to the rank of Q in Comedy. The rank of R in Comedy and rank of T in Painting is the same.

Thus, the only possible rank of T in painting is either 1 or 2. Based on the above given information we have:

| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | 5 | | 2/1 |
| R | 1/2 | | 4 |
| S | | 2 | 3 |
| T | | 5 | 1/2 |

Again, we have: The rank of T in Comedy is immediately higher than the rank of T in Painting. Thus, T gets rank 1 in Comedy. The rank of Q in Singing is immediately higher than the rank of S in Comedy. That means, Q gets rank 3 in singing. Based on the above given information we have:



| Name | Comedy | Singing | Painting |
|------|--------|---------|----------|
| P | 3 | 4 | 5 |
| Q | 5 | 3 | 1 |
| R | 2 | 1 | 4 |
| S | 4 | 2 | 3 |
| T | 1 | 5 | 2 |

Q8 Text Solution:

- Two people are taller than G.
- The one, who likes green, is shorter than G.

>>G>green>_ _>_>G>_>green

CASE I

CASE II

- T is taller than H and shorter than O, who does not like white.

- H does not like green.

- O is shorter than the one, who like yellow.

(Here, case 2 will be eliminated)

Yellow>O>G>(green)T>H(Blue)

Yellow>O>G>T>(green)H

CASE I

CASE II

- The one, who likes blue, is shorter than the one, who likes white.

(Refer point 3)

- M does not like pink.

Yellow(M)>Pink(O)>White(G)>Green(T)>Blue(H)

This is the final arrangement

Q9 Text Solution:

- Two people are taller than G.
- The one, who likes green, is shorter than G.

Case1

Case 2

| | | |
|----------|---|-------|
| Height ↑ | | |
| | | |
| | G | |
| | | Green |
| | | |

| | |
|---|-------|
| | |
| | |
| G | |
| | |
| | Green |

- T is taller than H and shorter than O, who does not like white.

- H does not like green.

- O is shorter than the one, who like yellow.

(Here, case 2 will be eliminated)

Case1

Case 2

| | | |
|----------|---|--------|
| Height ↑ | | Yellow |
| | O | |
| | G | |
| | T | Green |
| | H | |

| | |
|---|--------|
| | Yellow |
| O | |
| G | |
| T | |
| H | Green |

- The one, who likes blue, is shorter than the one, who likes white.

(Refer point 3)

- M does not like pink.

| | | |
|----------|---|--------|
| Height ↑ | M | Yellow |
| | O | Pink |
| | G | White |
| | T | Green |
| | H | Blue |
| | | |

Q10 Text Solution:

- Two people are taller than G.
- The one, who likes green, is shorter than G.

Case1

Case 2

| | | |
|----------|---|-------|
| Height ↑ | | |
| | | |
| | G | |
| | | Green |
| | | |

| | |
|---|-------|
| | |
| | |
| G | |
| | |
| | Green |

- T is taller than H and shorter than O, who does not like white.

- H does not like green.

- O is shorter than the one, who like yellow.

(Here, case 2 will be eliminated)

Case1

Case 2

| | | |
|----------|---|--------|
| Height ↑ | | Yellow |
| | O | |
| | G | |
| | T | Green |
| | H | |

| | |
|---|--------|
| | Yellow |
| O | |
| G | |
| T | |
| H | Green |

- The one, who likes blue, is shorter than the one, who likes white.

(Refer point 3)

- M does not like pink.



Height ↑

| | |
|---|--------|
| M | Yellow |
| O | Pink |
| G | White |
| T | Green |
| H | Blue |

Q11 Text Solution:

- 1) Only one person is heavier than K.
- 2) F is lighter than J and heavier than G, who is not the lightest.
- 3) J is lighter than K.

Increasing Weight ↑

| |
|---|
| |
| K |
| J |
| F |
| G |
| |

- 4) The one, who is the second heaviest, is 72kg.
- 5) The one, who is the second lightest, is 48kg.
- 6) The weight of L is less than 60kg.

Increasing Weight ↑

| | |
|---|------|
| H | |
| K | 72kg |
| J | |
| F | |
| G | 48kg |
| L | |

Q12 Text Solution:

- 1) Only one person is heavier than K.
- 2) F is lighter than J and heavier than G, who is not the lightest.
- 3) J is lighter than K.

Increasing Weight ↑

| |
|---|
| |
| K |
| J |
| F |
| G |
| |

- 4) The one, who is the second heaviest, is 72kg.

- 5) The one, who is the second lightest, is 48kg.
- 6) The weight of L is less than 60kg.

Increasing Weight ↑

| | |
|---|------|
| H | |
| K | 72kg |
| J | |
| F | |
| G | 48kg |
| L | |

Q13 Text Solution:

- 1) Only one person is heavier than K.
- 2) F is lighter than J and heavier than G, who is not the lightest.
- 3) J is lighter than K.

Increasing Weight ↑

| |
|---|
| |
| K |
| J |
| F |
| G |
| |

- 4) The one, who is the second heaviest, is 72kg.
- 5) The one, who is the second lightest, is 48kg.
- 6) The weight of L is less than 60kg.

Increasing Weight ↑

| | |
|---|------|
| H | |
| K | 72kg |
| J | |
| F | |
| G | 48kg |
| L | |

Q14 Text Solution:

- 1) H has more pens than T and K.
- 2) Z has more pens than L, who has less number of pens than U.
- 3) H has less number of pens than L.
- 4) U does not have the maximum pens.
- 5) The one, who has second lowest pens has 30 pens.



| | |
|-----|----|
| Z | |
| U | |
| L | |
| H | |
| T/K | 30 |
| T/K | |

↑
Pens

Q15 Text Solution:

- 1) H has more pens than T and K.
- 2) Z has more pens than L, who has less number of pens than U.
- 3) H has less number of pens than L.
- 4) U does not have the maximum pens.
- 5) The one, who has second lowest pens has 30 pens.

| | |
|-----|----|
| Z | |
| U | |
| L | |
| H | |
| T/K | 30 |
| T/K | |

↑
Pens

Q16 Text Solution:

- 1) H has more pens than T and K.
- 2) Z has more pens than L, who has less number of pens than U.
- 3) H has less number of pens than L.
- 4) U does not have the maximum pens.
- 5) The one, who has second lowest pens has 30 pens.

| | |
|-----|----|
| Z | |
| U | |
| L | |
| H | |
| T/K | 30 |
| T/K | |

↑
Pens

Q17 Text Solution:

It is given that,
The six police officers are A, B, C, D, E and F.
Their designations are DGP, ADGP, IGP, DIG, SSP and ASP.

The number of officers senior to A is an even number.

A is not the person with seniormost designation.

A is immediate senior to D.

We get,

| Designation | Case 1 | Case 2 |
|-------------|--------|--------|
| DGP | | |
| ADGP | | |
| IGP | A | |
| DIG | D | |
| SSP | | A |
| ASP | | D |

Only two officers are ranked between D and F.

E is immediate junior to C.

We get,

| Designation | Case 1 | Case 2 |
|-------------|--------|--------|
| DGP | F | C |
| ADGP | B | E |
| IGP | A | F |
| DIG | D | B |
| SSP | C | A |
| ASP | E | D |

At least two officers are senior to B.

Here, case 1 is invalid.

The final arrangement is,

| Designation | Name |
|-------------|------|
| DGP | C |
| ADGP | E |
| IGP | F |
| DIG | B |
| SSP | A |
| ASP | D |

Here, **three** officers are ranked above B.

Q18 Text Solution:

It is given that,

The six police officers are A, B, C, D, E and F.



Their designations are DGP, ADGP, IGP, DIG, SSP and ASP.

The number of officers senior to A is an even number.

A is not the person with seniormost designation.

A is immediate senior to D.

We get,

| Designation | Case 1 | Case 2 |
|-------------|--------|--------|
| DGP | | |
| ADGP | | |
| IGP | A | |
| DIG | D | |
| SSP | | A |
| ASP | | D |

Only two officers are ranked between D and F.

E is immediate junior to C.

We get,

| Designation | Case 1 | Case 2 |
|-------------|--------|--------|
| DGP | F | C |
| ADGP | B | E |
| IGP | A | F |
| DIG | D | B |
| SSP | C | A |
| ASP | E | D |

At least two officers are senior to B.

Here, case 1 is invalid.

The final arrangement is,

| Designation | Name |
|-------------|------|
| DGP | C |
| ADGP | E |
| IGP | F |
| DIG | B |
| SSP | A |
| ASP | D |

Here, the correct pair is '**SSP - A**'.

Q19 Text Solution:

1. Only one person goes before N.
2. No one goes after M.
3. Two people go between K and N.

CASE 1

| | |
|------|---|
| 1st | |
| 2nd | N |
| 3rd | |
| 4th | |
| 5th | K |
| 6th | |
| 7th | |
| LAST | M |

4. P goes immediately before Q.

CASE 1

| | |
|------|---|
| 1st | |
| 2nd | N |
| 3rd | P |
| 4th | Q |
| 5th | K |
| 6th | |
| 7th | |
| LAST | M |

CASE 2



| | |
|------|---|
| 1st | |
| 2nd | N |
| 3rd | |
| 4th | |
| 5th | K |
| 6th | P |
| 7th | Q |
| LAST | M |

5. L goes before P but after O. Therefore, case 1 is no longer valid.
6. Two people go between R and P.
7. R goes before L.
8. R doesn't go before N.

CASE 2

| | |
|------|---|
| 1st | O |
| 2nd | N |
| 3rd | R |
| 4th | L |
| 5th | K |
| 6th | P |
| 7th | Q |
| LAST | M |

Q20 Text Solution:

1. Only one person goes before N.
2. No one goes after M.
3. Two people go between K and N.

CASE 1

| | |
|------|---|
| 1st | |
| 2nd | N |
| 3rd | |
| 4th | |
| 5th | K |
| 6th | |
| 7th | |
| LAST | M |

4. P goes immediately before Q.

CASE 1

| | |
|------|---|
| 1st | |
| 2nd | N |
| 3rd | P |
| 4th | Q |
| 5th | K |
| 6th | |
| 7th | |
| LAST | M |

CASE 2



| | |
|------|---|
| 1st | |
| 2nd | N |
| 3rd | |
| 4th | |
| 5th | K |
| 6th | P |
| 7th | Q |
| LAST | M |

5. L goes before P but after O. Therefore, case 1 is no longer valid.
6. Two people go between R and P.
7. R goes before L.
8. R doesn't go before N.

CASE 2

| | |
|------|---|
| 1st | O |
| 2nd | N |
| 3rd | R |
| 4th | L |
| 5th | K |
| 6th | P |
| 7th | Q |
| LAST | M |

Q21 Text Solution:

1. Only one person goes before N.
2. No one goes after M.
3. Two people go between K and N.

CASE 1

| | |
|------|---|
| 1st | |
| 2nd | N |
| 3rd | |
| 4th | |
| 5th | K |
| 6th | |
| 7th | |
| LAST | M |

4. P goes immediately before Q.

CASE 1

| | |
|------|---|
| 1st | |
| 2nd | N |
| 3rd | P |
| 4th | Q |
| 5th | K |
| 6th | |
| 7th | |
| LAST | M |

CASE 2



| | |
|------|---|
| 1st | |
| 2nd | N |
| 3rd | |
| 4th | |
| 5th | K |
| 6th | P |
| 7th | Q |
| LAST | M |

5. L goes before P but after O. Therefore, case 1 is no longer valid.
6. Two people go between R and P.
7. R goes before L.
8. R doesn't go before N.

CASE 2

| | |
|------|---|
| 1st | O |
| 2nd | N |
| 3rd | R |
| 4th | L |
| 5th | K |
| 6th | P |
| 7th | Q |
| LAST | M |

Q22 Text Solution:

It is given that,

The six police officers are A, B, C, D, E and F.

Their designations are DGP, ADGP, IGP, DIG, SSP and ASP.

The number of officers senior to A is an even number.

A is not the person with seniormost designation.

A is immediate senior to D.

We get,

| Designation | Case 1 | Case 2 |
|-------------|--------|--------|
| DGP | | |
| ADGP | | |
| IGP | A | |
| DIG | D | |
| SSP | | A |
| ASP | | D |

Only two officers are ranked between D and F.

E is immediate junior to C.

We get,

| Designation | Case 1 | Case 2 |
|-------------|--------|--------|
| DGP | F | C |
| ADGP | B | E |
| IGP | A | F |
| DIG | D | B |
| SSP | C | A |
| ASP | E | D |

At least two officers are senior to B.

Here, case 1 is invalid.

The final arrangement is,

| Designation | Name |
|-------------|------|
| DGP | C |
| ADGP | E |
| IGP | F |
| DIG | B |
| SSP | A |
| ASP | D |

Here, statements **II** and **III** are true.



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