



Date : 22nd Dec 2023

Logical Reasoning – Designation Based

English

Directions (1 - 5): Read the given information carefully and answer the following questions.

Nine persons of a family are working on nine different designations in the company viz. CMD, CEO, COO, CFO, MD, Senior Manager (SM), Associate manager (AM), Supervisor, and Trainee. All the designations given are to be considered in a given order (as CMD is considered as Senior-most and Trainee are considered as the Junior-most). There are only three married couples in this family. Either both or no parent is alive. All of them get different awards- Leadership award, Best performance award, and Teamwork award.

Two persons work between S and his wife. X works on three posts higher than W. The number of persons senior to X is one more than the number of persons junior to R who is the brother-in-law of U. S has only two children. Only S and his daughter got the best performance award. R is the nephew of T who is not the sibling of P. Q is the sister-in-law of V and got the leadership award. Not more than three persons are senior to S who is not the CEO. Four persons work between W and S who is the grandfather of W. Parents of W got the same award but not as same as W. Only one person works between P and T who is junior to P and got the Teamwork award. Neither P nor V is AM of the company. V is the aunt of X whose sister got the Teamwork award. Number of males are one more than the number of females in this family. X and U got the same award but not as same as R. U and W got the same award. P, V, and T, all of them got different awards. Q is just junior to U who is the son-in-law of S but not the father of W. Neither Q nor U is CMD.

Q:1 Brother-in-law of Q works on which designation and got which award?

1. CEO- Leadership Award
2. AM-Teamwork Award
3. CFO- Best performance Award
5. None of these

Q:2 Which of the following information is true about T?

- I. Not more than five persons are junior to T
- II. T does not get the same award as R
- III. The one who is CEO is the niece of T
- IV. T is the aunt of the one who is MD

1. Only I and III are true
2. Only II and IV are true
3. Only II and III are true
5. All are true

Q:3 How V is related to the one who is a trainee?

1. Uncle
2. Aunt
3. Sister
5. None of these

Q:4 How many persons work between P and her son-in-law?

1. Four
2. Two
3. Three
5. Six

Q:5 What is the designation of the one who is the son of Q?

1. Trainee
2. SM
3. CFO
5. None of these

Directions (6 - 10): Read the given information carefully and answer the following questions.

21 persons work in an organization at a different post. The posts are in decreasing order i.e. Executive Director (ED), General Manager (GM), Deputy General Manager (DGM), Manager, Assistant Manager (AM), and Clerk. The number of person posted were one less than the number of persons posted in the immediate junior post. For example: If 4 persons work as AM then 5 persons work as a Clerk.

D, E, and H are working together in a post which is senior to AM. M, P, L, and N are working together in a post. B is working in a post which is just junior most to K. The number of persons working above H is the same as the number of persons working below K. S is senior to X who is senior to both V and C. Both R and N are senior to V. U and T are working together in a post which is senior to L. N and R are not working in the same post. X is senior to both Q and W. Q is working below the post of DGM. Neither Q nor X is working as GM. F and G working together in a post and they are senior to R who is junior to both T and S. C is junior to S but not senior to A. G is senior to T.



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Note: No transfer happens for the person who belongs to the top 2 departments.

1. Letter before 'M' working with vowel move to HR department.

2. After the 1st condition Letter after 'M' having an even number of persons working in any particular designation will move to marketing and the rest will be in the Legal department.

3. Now the organization will select a leader from ED and GM. The person closest to the vowel will lead the legal department and the rest will lead the marketing and HR departments as per alphabetical order respectively.

Q:6 Who among the following will lead the HR department?

1. S
2. G
3. F
5. T

Q:7 How many people are senior to D?

1. 5
2. 6
3. 7
5. 10

Q:8 How many people are working with B?

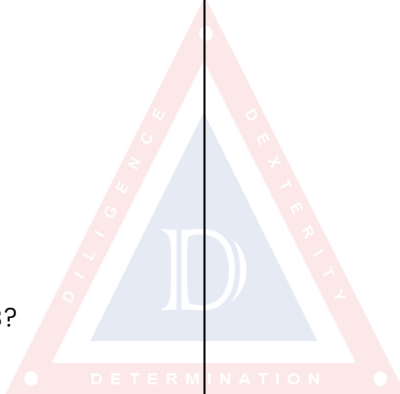
1. 0
2. 1
3. 2
5. 5

Q:9 Which one is odd?

1. B
2. V
3. Q
5. C

Q:10 How many people work in the marketing department (excludes the lead person)?

1. 5
2. 6
3. 7
5. 4



Answer Key

1. (2)	2. (3)	3. (2)	4. (4)	5. (2)
6. (1)	7. (2)	8. (5)	9. (4)	10. (5)

Answers and Solutions

- (Q:1 - Q:5): 1. Not more than three persons are senior to S who is not the CEO. (There are two possibilities).
 2. Four persons work between W and S who is the grandfather of W.
 3. X works on three posts higher than W.
 4. The number of persons senior to X is one more than the number of persons junior to R who is the brother-in-law of U.
 5. Q is just junior to U who is the son-in-law of S but not the father of W.
 6. Neither Q nor U is CMD. (From this condition possibility of S is COO has been cancelled).
 7. S has only two children.

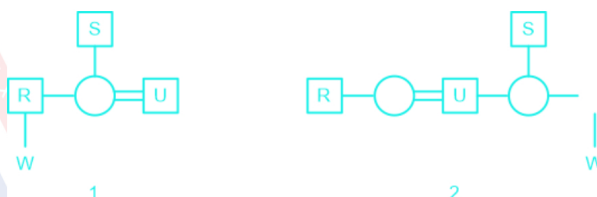
There are two possibilities-

Case 1

Designations	Persons	Awards
CMD		
CEO	U/	
COO	Q/	
CFO	S	
MD	R	
SM	X	
AM	U/	
Supervisor	Q/	
Trainee	W	

Case 2

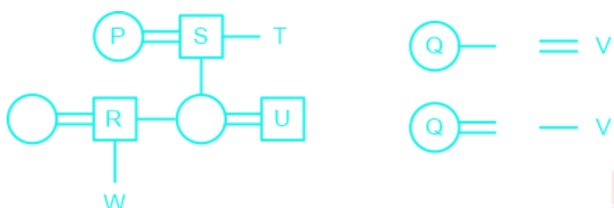
Designations	Persons	Awards
CMD	S	
CEO		
COO	X	
CFO	U	
MD	Q	
SM	W	
AM		
Supervisor	R	
Trainee		



8. Only S and his daughter got the best performance award. (Case 2 gets canceled)
 9. Two persons work between S and his wife.
 10. R is the nephew of T who is not the sibling of P.
 11. Q is the sister-in-law of V and got the leadership award.
 12. Parents of W got the same award but not as same as W. (from this condition case 2 in the blood relation tree has been canceled because in this case, possible couples are four).
 13. Only one person works between P and T who is junior to P and got the Teamwork award.
 14. Neither P nor V is AM of the company.
 From the above conditions, it is clear that P is the wife of S, and T is the sibling of S.

Case 1

Designations	Persons	Awards
CMD	P	
CEO	V	
COO	T	Teamwork
CFO	S	Best performance
MD	R	
SM	X	
AM	U	
Supervisor	Q	Leadership
Trainee	W	



15. V is the aunt of X whose sister got the Teamwork award. (Hence W and X are the children of Q)

16. Number of males are one more than the number of females in this family.

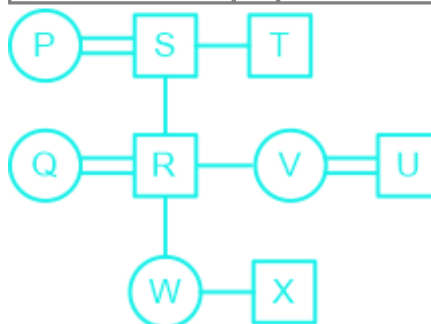
17. X and U got the same award but not as same as R. U and W got the same award. P, V, and T, all of them got different awards.

Hence Q and R got the leadership award, V got the Best performance award and X and U got the teamwork award.

The final arrangement is-

Designations	Persons	Awards
CMD	P	Leadership
CEO	V	Best performance
COO	T	Teamwork
CFO	S	Best performance

MD	R	Leadership
SM	X	Teamwork
AM	U	Teamwork
Supervisor	Q	Leadership
Trainee	W	Teamwork



Q:1 The correct answer is **Option 2** i.e. **AM-Teamwork Award**

From the above arrangement, U is the brother-in-law of Q and works as an Assistant Manager and got a Teamwork award.

Hence, the correct answer is **AM-Teamwork Award**.

Q:2 The correct answer is **Option 3** i.e. **Only II and III are true**

From the above arrangement, Only statements II and III are true.

Hence, the correct answer is **Only II and III are true**.

Q:3 The correct answer is **Option 2** i.e. **Aunt**

From the above arrangement, W works as a trainee and V is the aunt of W.

Hence, the correct answer is **Aunt**.

Q:4 The correct answer is **Option 4** i.e. **Five**

From the above arrangement, U is the son-in-law of P and five persons work between U and P.

Hence, the correct answer is **Five**.

Q:5 The correct answer is **Option 2** i.e. **SM**

From the above arrangement, X is the son of Q and works as SM.

Hence, the correct answer is **SM**.

(Q:6 – Q:10): 1. It is known that in any post the number of person posted were one more than the number of person posted in the immediate senior post. For example: If 4 persons work as a Clerk then 5 persons work as a Trainee.

Then according to the information,

Designations	Persons
ED	—
GM	—, —
DGM	—, —, —
Manager	—, —, —, —
AM	—, —, —, —, —
Clerk	—, —, —, —, —, —

2. D, E, and H are working together in a post which is senior to AM.

3. The number of persons working above H is the same as the number of persons working below K.

4. B is working in a post which is just junior most to K.

Designations	Persons
ED	—
GM	—, —
DGM	—, —, —
Manager	D, E, H, —
AM	K, —, —, —, —
Clerk	B, —, —, —, —, —

4. M, P, L, and N are working together in a post. Here, we have two Cases i.e. Case 1 and Case 2.

Designations	Case 1	Case 2
ED	—	—
GM	—, —	—
DGM	—, —, —	—
Manager	D, E, H, —	D, E, H, —
AM	K, M, P, L, N	K, —, —, —, —
Clerk	B, —, —, —, —, —	B, M, P, L, N, —

5. N and R are not working in the same post.

6. Both R and N are senior to V.

Now, we can eliminate Case 2.

7. U and T are working together in a post which is senior to L.

8. S is senior to X who is senior to both V and C.

9. Q is working below the post of DGM.

10. F and G working together in a post and they are senior to R who is junior to both T and S.

11. G is senior to T.

12. X is senior to both Q and W.

13. Neither Q nor X is working as GM.

14. C is junior to S but not senior to A.

Designations	Case 1
ED	S
GM	G, F
DGM	U, T, X
Manager	D, E, H, R
AM	K, M, P, L, N
Clerk	B, V, Q, W, C, A

This is our final arrangement.

Q:6 The correct answer is **Option 1** i.e. **S**

After applying the conditions,

HR – D, H, C, B

Marketing – R, V, Q, W

Legal – A, K, M, P, L, N, E, U, T, X

HR department will be lead by S

Marketing department will be lead by G

Legal department will be lead by F

Clearly, S leads the HR department.

Hence, the correct answer is **S**.

Q:7 The correct answer is **Option 2** i.e. **6**

After applying the conditions,

HR – D, H, C, B

Marketing – R, V, Q, W

Legal – A, K, M, P, L, N, E, U, T, X

HR department will be lead by S

Marketing department will be lead by G

Legal department will be lead by F

Clearly, 6 people are senior to D.

Hence, the correct answer is **6**.

Q:8 The correct answer is **Option 5** i.e. **5**

After applying the conditions,

HR – D, H, C, B

Marketing – R, V, Q, W

Legal – A, K, M, P, L, N, E, U, T, X

HR department will be lead by S

Marketing department will be lead by G

Legal department will be lead by F

Clearly, 5 people work with B.

Hence, the correct answer is **5**.

Q:9 The correct answer is **Option 4** i.e. **R**

After applying the conditions,

HR – D, H, C, B

Marketing – R, V, Q, W



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Legal – A, K, M, P, L, N, E, U, T, X
HR department will be lead by S
Marketing department will be lead by G
Legal department will be lead by F
Except for R, all others are Clerk.
Hence, the correct answer is **R**.

Q:10 The correct answer is **Option 5** i.e. **4**
After applying the conditions,
HR – D, H, C, B
Marketing – R, V, Q, W
Legal – A, K, M, P, L, N, E, U, T, X
HR department will be lead by S
Marketing department will be lead by G
Legal department will be lead by F
Clearly, 4 people work in the marketing department.
Hence, the correct answer is **4**.

