

Date : 2nd Jan 2024

Logical Reasoning – Blood Relation

English

Q:1 Directions: Answer the question based on the information given below.

If, 'L # M' means 'L is the husband of M'

'L @ M' means 'L is the sister of M'

'L \$ M' means 'L is the daughter of M'

'L % M' means 'L is the son of M'

'L & M' means 'L is the father of M'

If 'G # F \$ E @ D & C # B @ A' is definitely true, then how is F related to B?

1. Mother-in-law
2. Aunt
3. Brother-in-law
4. Sister-in-law

Q:2 If 'A * B' means 'A is the father of B', 'A % B' means 'A is the husband of B', 'A & B' means 'A is the brother of B', 'A @ B' means 'A is the daughter of B' then how is T related to R in the expression P * Q @ R @ S & T * U?

1. Uncle
2. Father
3. Father-in-law
4. Brother-in-law

Q:3 Read the given information carefully and answer the following questions.

There are 8 members (A, B, C, D, E, F, G, and H) in a family in which there are 2 couples. A is the son of D. H is the only son of A and C. G is the granddaughter of D. E is the wife of B who is the brother of A. F is the brother of G. H has no siblings. How is E related to F?

1. Father
2. Mother
3. Daughter
4. Grandmother

Q:4 Pointing to a lady, Shivansh said, "She is the wife of the son of my mother's only son". How is that lady related to Shivansh if he does not have any siblings and he is a male?

1. Daughter
2. Sister
3. Sister-in-law
4. Daughter-in-law

Q:5 Answer the questions based on the information given below.

'R8S' means 'S is the son of R'.

'R7S' means 'R is the brother of S'.

'R6S' means 'R is married to S'.

'R2S' means 'S is the wife of R'.

If the coded expression 'M7D2K8A7E' is true then how M is related to E?

1. Maternal Uncle
2. Father
3. Sister
4. Paternal Uncle

Q:6 Read the following information carefully and answer the question given below:

If 'P @ Q' means 'P is the father of Q'

'P \$ Q' means 'P is the wife of Q'

'P % Q' means 'P is the brother of Q'

'P * Q' means 'P is the sister of Q'

How is B related to F in the expression 'A % B \$ C # D * E \$ F'?

1. Father-in-law
2. Mother-in-law
3. Son-in-law
4. Daughter-in-law

Q:7 If B + C means B is the mother of C, B - C means B is the husband of C, B × C means B is the brother of C, and B ÷ C means B is the son of C, then which expression shows T is the mother-in-law of V?

1. T + U - V
2. T - U + V
3. T ÷ U - V
4. None of these

Q:8 Rahul is the son of Priya. Geet is the father of Manu. Rahul is married to Devi. Rahul and Manu are siblings. Prem is the brother of Devi. Geet has only one son. Riya is the son of Rahul. Prem is the father of Kaka. Joshi is the daughter of Manu. Prem has no daughters.

How many female(s) members are there in the family?

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



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Q:9 A @ B means 'A is the mother of B'

A # B means 'A is the son of B'

A ! B means 'A is the husband of B'

A & B means 'A is the wife of B'

If P ! Q @ R @ T # S then how is S related to Q?

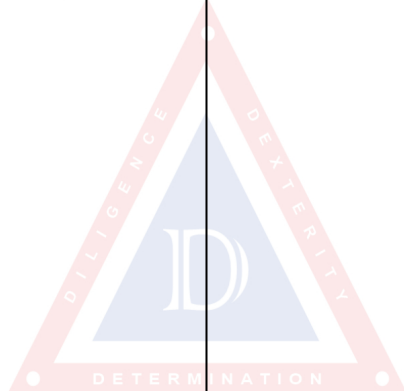
1. Son
2. Father
3. Husband
4. Son-in-law

Q:10 Read the given information carefully and answer the following questions.

There are eight members (P, Q, R, S, T, U, V, and W) in a family. There are three married couples in the house. R is the maternal grandfather of W. Q is the mother-in-law of U. P is the only daughter of S, who is the father of U. T is the mother-in-law of V, who is the mother of W. U and V are a married couple.

How is P related to V?

1. Son
2. Sister-in-law
3. Sister
4. Brother



Answer Key

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

Answers and Solutions

Q:1 The correct answer is **Option 4** i.e. **Sister-in-law**

'L # M' means 'L is the husband of M'

'L @ M' means 'L is the sister of M'

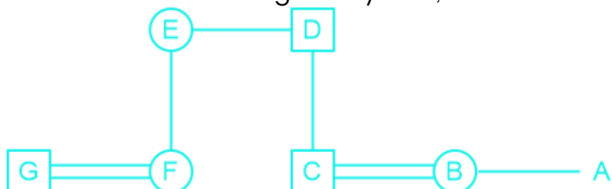
'L \$ M' means 'L is the daughter of M'

'L % M' means 'L is the son of M'

'L & M' means 'L is the father of M'

'G # F \$ E @ D & C # B @ A'

We draw the following family tree,



From the above family tree, F is the **sister-in-law** of B.

Q:2 The correct answer is **Option 1** i.e. **Uncle**

After decoding the statement,

$P * Q \rightarrow P$ is the father of Q

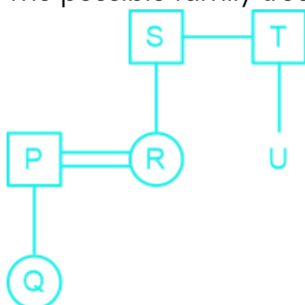
$Q @ R \rightarrow Q$ is the daughter of R

$R @ S \rightarrow R$ is the daughter of S

$S \& T \rightarrow S$ is the brother of T

$T * U \rightarrow T$ is the father of U

The possible family tree is,



Clearly, T is the uncle of R.

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

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

A is the son of D.

H is the only son of A and C. (So, C is the wife of A)

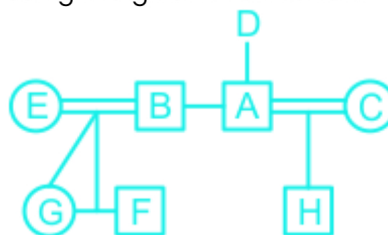
H has no siblings.

E is the wife of B who is the brother of A.

G is the grand-daughter of D. (So, G is the daughter of E and B)

F is the brother of G.

The following family tree diagram can be drawn using the given information:



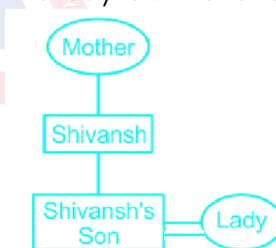
Hence, E is the **mother** of F.

Q:4 The correct answer is **Option 4** i.e. **Daughter-in-law**

Shivansh's mother's only son is Shivansh himself:



The lady is Shivansh's son's wife:



According to the tree diagram, the lady is the daughter-in-law of Shivansh.

Hence, the correct answer is **daughter-in-law**.

Q:5 The correct answer is **Option 4** i.e. **Paternal Uncle**.

From the expression 'M7D2K8A7E'

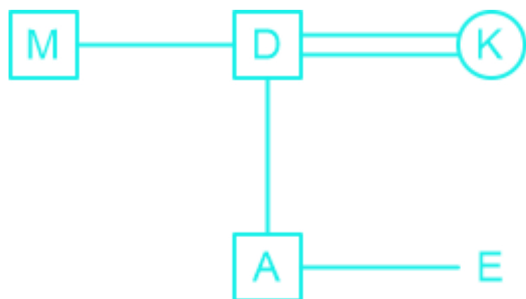
After the coding the codes we get, M is the brother of D. K is the wife of D. A is the son of K. A is the brother of E.

Hence, final diagram:

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Hence, 'M' is the **paternal uncle** of 'E'.

Hence, **paternal uncle** is the correct answer.

Q:6 The correct answer is **Option 2** i.e., **Mother-in-law**

Given,

'P # Q' = 'P is the father of Q'

'P \$ Q' = 'P is the wife of Q'

'P % Q' = 'P is the brother of Q'

'P * Q' = 'P is the sister of Q'

After decoding the statement,

A % B = 'A is the brother of B'

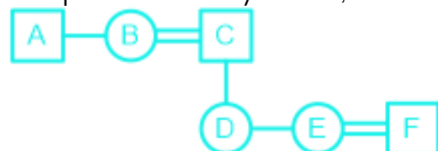
B \$ C = 'B is the wife of C'

C # D = 'C is the father of D'

D * E = 'D is the sister of E'

E \$ F = 'E is the wife of F'

The possible family tree is,



Clearly, B is the mother-in-law of F.

Hence, the correct answer is **Mother-in-law**.

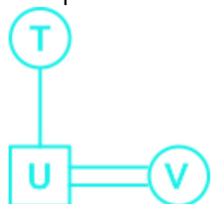
Q:7 The correct answer is **Option 1** i.e. **T + U - V**

Option 1: After decoding the statement,

T + U → T is the mother of U

U - V → U is the husband of V

The possible family tree is,



Clearly, T is the mother-in-law of V.

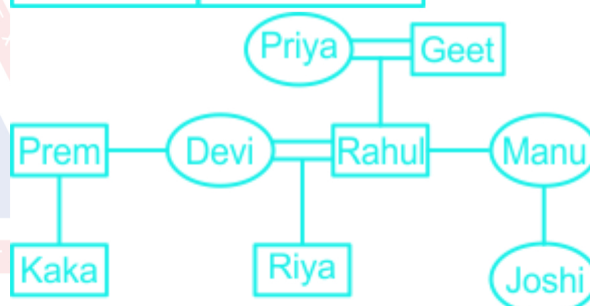
There is no need to solve further options.

Hence, the correct answer is **T + U - V**.

Q:8 The correct answer is **Option 2** i.e. **Four**

According to the question, the blood relation diagram would be:

Symbol in Diagram	Meaning
○	Female
□	Male
=	Married Couple
—	Siblings
	Difference of A Generation



Clearly, there are four females in the family.

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

Q:9 The correct answer is **Option 4** i.e. **Son-in-law**

Given: P ! Q @ R @ T # S

After decoding:

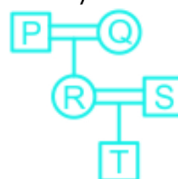
P ! Q: P is the husband of Q,

Q @ R: Q is the mother of R,

R @ T: R is the mother of T,

T # S: T is the son of S

Family tree diagram:



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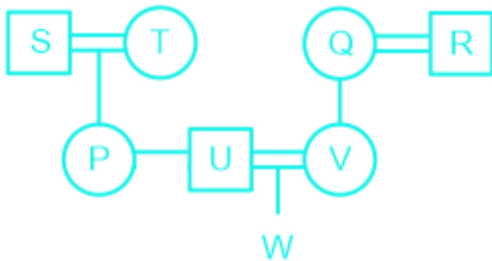
English

S is the **son-in-law** of Q.

Hence, the correct answer is **Son-in-law**.

Q:10 The correct answer is **Option 2** i.e. **Sister-in-law**

- There are eight members (P, Q, R, S, T, U, V, and W) in a family. There are three married couples in the house. R is the maternal grandfather of W.
- Q is the mother-in-law of U. P is the only daughter of S, who is the father of U. T is the mother-in-law of V, who is the mother of W. U and V are a married couple.



P is the sister-in-law of V.

Hence, the correct answer is **Sister-in-law**.

