

## CODED RELATIONS

**Directions(1 – 5):** These questions are based on the following information.

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

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

'P ? Q' means 'Q is the mother of P'

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

'P £ Q' means 'Q is the son of P'

'P × Q' means 'P is the daughter of Q'

**1) Which of the following is not correct?**

1) L £ M # O means O is the sister of L      2) M # O £ P = Q means Q and O are husband & wife

3) P = Q ? R means R is the grandmother of P      4) R × S ? T means R is the granddaughter of T

5) All are correct

**Answer : 1) L £ M # O means O is the sister of L.**

**Explanation :** 1) L £ M # O → M is son of L, M is sister of O → M is a male here, he can not become sister to O. So, this is not correct.

**2) Which of the following is correct?**

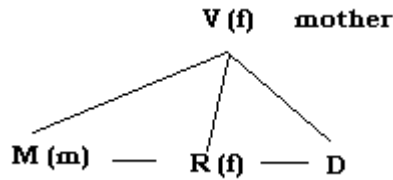
1) L £ M \$ R means R is the paternal uncle of L      2) M \$ R # D ? V means M is the son of V

3) D ? V × T means D is the granddaughter of T      4) V × T # P means P is the maternal uncle of V      5) None is correct:

**Answer : 2) M \$ R # D ? V means M is the son of V**

**Explanation :** 1) L £ M \$ R → M is son of L, M is brother of R → R is not paternal uncle of L, R is either son or daughter to L.

2)  $M \$ R \# D ? V \rightarrow$  M is brother of R, R is sister of D, V is mother of D. V is mother of M, R and D. So, M is son of V.



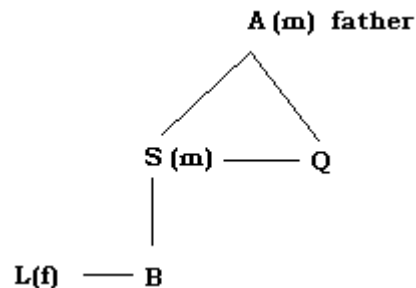
3) Which of the following indicates 'A is the grandfather of B'?

- 1)  $M \times A = N = B$     2)  $B \$ L \times Q \times A$     3)  $L \# B = S \$ Q = A$     4)  $B \times L \times A$   
 5) None of these

**Answer : 3)  $L \# B = S \$ Q = A$ .**

**Explanation :** A is grand father of B means A must be a male. In 1, 2 and 4 options there is no confirmation of A's gender. In all these options A is either male or female. So, all these options can be eliminated. But in third option A is a male. So we have to check that option.

$L \# B = S \$ Q = A \rightarrow$  L and B are children to S and S and Q are children to A.



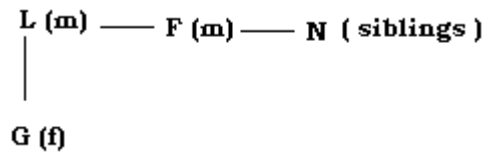
4) Which of the following means 'F is the paternal uncle of G'?

- 1)  $L = F \$ Q \# G$     2)  $G \times M \# F \$ L$     3)  $N \$ F \$ L \times G$     4)  $G \times L \$ F \$ N$     5) None of these

**Answer : 4)  $G \times L \$ F \$ N$ .**

**Explanation :** F is paternal uncle of G means F must be a male. In all options F is male.

$G \times L \$ F \$ N \rightarrow$  L, F and N are siblings and G is L's daughter. And F is paternal uncle of G.

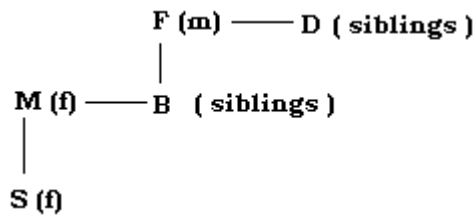


5) ' $S \times M \# B = F \$ D$ ' reveals which of the following relations?

1) M is the maternal uncle of F 2) S is the granddaughter of F 3) B is the paternal uncle of S 4) F and B are brother and sister 5) None of the above relations gets revealed

**Answer : 2) S is the granddaughter of F .**

**Explanation :**  $S \times M \# B = F \$ D \rightarrow$  S is daughter of M and M is mother of S and sister of B. B and M are children of F and F is brother of D. So, S is grand daughter of F and F is maternal grand father of S. D is maternal grand mother or grand father to S.



**Directions(6-8):** These questions are based on the following information.

- A) ' $P \times Q$ ' means 'P is father of Q'
- B) ' $P - Q$ ' means 'P is sister of Q'
- C) ' $P + Q$ ' means 'P is mother of Q'
- D) ' $P \div Q$ ' means 'P is brother of Q'

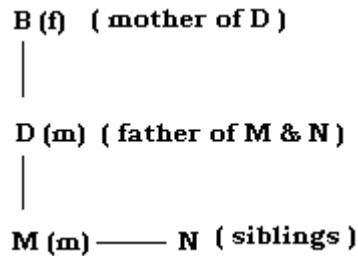
6) In the expression  $B + D \times M \div N$ , how is M related to B?

- 1) granddaughter 2) son 3) grandson 4) granddaughter or grandson 5) None of these

**Answer : 3) grandson .**

**Explanation :**  $B + D \times M \div N \rightarrow$  B is mother of D, D is father of M and M is brother of N.

B is M's father's mother. So, M is grand son of B.



7) Which of the following represents 'J is son of F'?

- 1)  $J \div R - T \times F$  2)  $J + R - T \times F$  3)  $J \div M - N \times F$  4) can't be determined 5) None of these

**Answer : 5) None of these .**

**Explanation :** J is son F means J must be a male. If 'J' is followed by ' $\div$ ' or ' $\times$ ', then F must be a male. So, we can eliminate 2<sup>nd</sup> option.

$J \div R - T \times F \rightarrow$  J is brother of R , R is sister of T and T is father of F. Here, J is paternal uncle of F.

$J \div M - N \times F \rightarrow$  J is brother of M, M is sister of N and N is father of F. Here, J is paternal uncle of F.

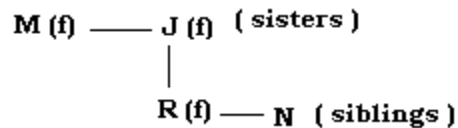
8) Which of the following represents 'R is niece of M'?

- 1)  $M \div K \times T - R$  2)  $M - J + R - N$  3)  $R - M \times T \div W$  4) can't be determined 5) None of these

**Answer : 2) M – J + R – N .**

**Explanation :** R is niece of M means R must be a female. If R is followed by ‘–’ or ‘+’, then R must be a female. So, we can eliminate 1<sup>st</sup> option.

M – J + R – N → M is sister of J, J is mother of R, R is sister of N. Here, M is maternal aunt to R and R is niece of M ( M’s sister’s daughter ).



**Directions(9-13):** These questions are based on the following information.

‘P © Q’ means ‘Q is the brother of P’

‘P # Q’ means ‘P is the daughter of Q’

‘P = Q’ means ‘Q is the sister of P’

‘P £ Q’ means ‘P is the son of Q’

‘P \* Q’ means ‘P is the father of Q’

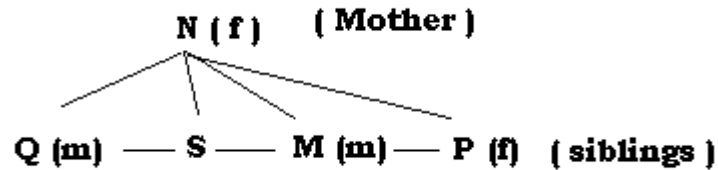
‘P @ Q’ means ‘P is the mother of Q’

**9) Which of the following can be a correct conclusion drawn from the expression ‘Q £ N @ S © M = P’?**

- 1) S is the brother of P    2) N has two sons and two daughters    3) S is the sister of Q    4) P is the sister of Q    5) None of these

**Answer : 4) P is the sister of Q .**

**Explanation :** Q £ N @ S © M = P → Q is son of N, N is mother of S, M is brother of S and P is sister of M. N is the mother and she has 4 children among whom Q and M are sons, P is daughter and S is son or daughter.

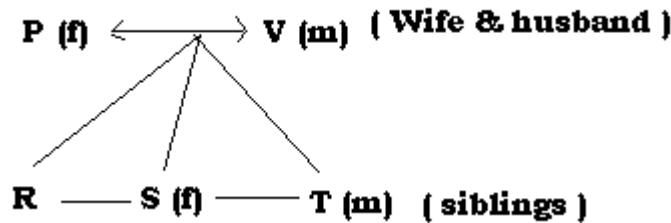


10) What does the expression 'P @ R = S © T £ V' mean?

- 1) V is the husband of P
- 2) R is the son of V
- 3) R is the daughter of V
- 4) V is the wife of P
- 5) None of these

**Answer : 1) V is the husband of P.**

**Explanation :** P @ R = S © T £ V → P is mother of R, S is sister of R, T is brother of S and T is the son of V. P and V are wife and husband and their children are R, S and T among whom S is their daughter, T is their son and R is their son or daughter.



11) Which of the following indicates that 'C is the paternal uncle of D'?

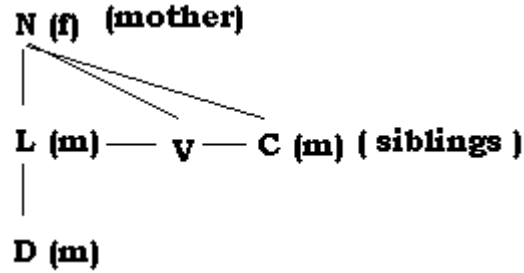
- 1) C £ V # N @ L © D
- 2) C £ V £ L @ N © D
- 3) D £ L £ N @ V © C
- 4) D £ N # V @ L © C
- 5) None of these

**Answer : 3) D £ L £ N @ V © C.**

**Explanation :** C is the paternal uncle of D means C must be a male.

D £ L £ N @ V © C → D is son of L, L is son of N, N is mother of V and C is brother of V.

N is the mother and N has 3 children among whom L and C are her sons and V is her son or daughter. D is son of L and V is D's paternal uncle or aunt and C is D's paternal uncle and D is nephew to V and C.



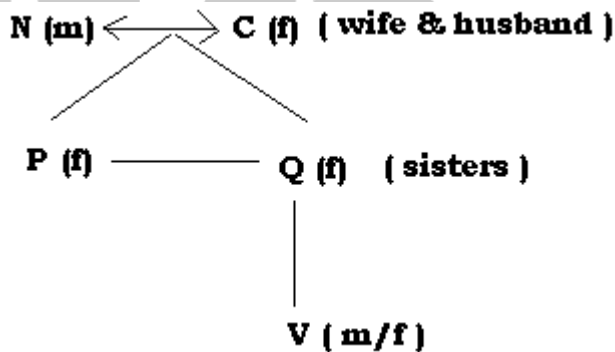
12) Which of the following indicates that 'Q is the daughter of N'?

- 1)  $Q * P \# C @ N @ V$     2)  $N * P \# C @ Q @ V$     3)  $M @ N \# R * Q$     4)  $M @ Q = V \# N$   
 5) None of these

**Answer : 2)  $N * P \# C @ Q @ V$ .**

**Explanation :** Q is the daughter of N means Q must be a female. 1, 3 and 4 options are eliminated.

$N * P \# C @ Q @ V \rightarrow$  N is the father of P, P is the daughter of C, C is mother of Q and Q is mother of V. N and C are husband and wife. Their daughters are P and Q. Q is mother of V.



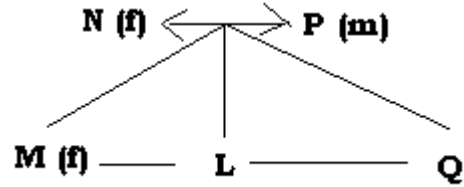
13) Which of the following can be the correct conclusion drawn from the expression

' $L = M \# N @ P * Q$ '?

- 1) Q is the grandson of M    2) L is the uncle of N    3) N is the uncle of Q    4) Q is the niece of N    5) None of these

**Answer : 5) None of these**

**Explanation :**  $L = M \# N \text{ © } P * Q \rightarrow$  M is sister of L, M is daughter of N, P is brother of N and P is father of Q. Here, N is wife and her husband is P. Their children are M, L and Q.



संज्ञा