

## BLOOD RELATION

**“Some basic Rule for relation coding”**

- Wife of son is called daughter-in-law
- Husband of daughter is called son-in-law
- Sister of Husband is called Sister-in-law
- Sister of Wife is called Sister-in-law
- Son of brother is called nephew
- Daughter of brother is called niece
- Son or daughter of Uncle or Aunt is called cousin
- Husband of Sister is called brother-in-law
- Wife of Elder brother is called Sister-in-law
- Son of Paternal Grandfather/Mother-Father/Uncle
- Daughter of Grandfather/Mother is called Aunt
- Sister of Father is called Aunt
- Sister of Mother is called Aunt
- Brother of Mother is called Maternal Uncle
- Mother of Father is called Grandmother
- Father of Father is called Grandfather
- Mother of Mother is called Maternal Grandmother
- Father of Mother is called Maternal Grandfather
- Father of Grandfather is called Great Grandfather
- Mother of Grandfather is called Great Grandmother
- Brother of Father is called Paternal Uncle
- Son of Mother-in-law is called Husband or Brother-in-law
- Only child of 'X' Grand Mother is called Father or Mother of 'X'
- Only son of his father means self

**EXAMPLE****TYPE**

- (i) Puzzle form
- (ii) Pointing to or indicate to
- (iii) Coded relationship Grandfather/Grand mother

[ Father/Mother/Uncle/Aunt

[ Son/Daughter

Male ® D

Female ® ○

Brother ® D D

Brother and Sister D ○

Husband & wife D + ○

How to make family tree

Ex. 1 A is the father of B.



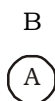
Ex. 2. A is the mother of B.



Ex. 3 A is the son of B.



Ex. 4 A is the daughter of B.



Ex. 5 A and B are Brothers



Ex. 6 A is sister of B, B is sister of A.



Ex. 7 A is the husband of B.



Ex. 8 A is paternal uncle of B.



Ex. 9 A is maternal uncle of B.



Ex. 10 A is the Paternal Grandfather of B.



Ex. 11. A is the maternal Grandfather of B.



Ex. 12 A is the Paternal Grandmother of B.



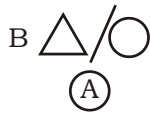
Ex. 13 A is maternal Grandmother of B.



Ex. 14 A is the Nephew of B.

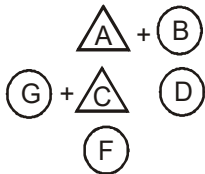


Ex. 15 A is the niece of B.



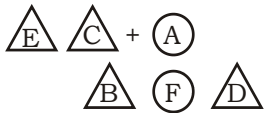
### TYPE - I PUZZLE FOR EXAMPLE

1. In a family, A is the Husband of B, C is a Son of A, D is a daughter of B. F is a daughter of G. C is the father of F. Then how is G related to B.



G is the daughter in law of B

2. There are six members of the family A, B, C, D, E and F are travelling together in which B is a son of C but C is not the mother of B. E is the Brother of C, D is a Brother of F, F is a daughter of A and (A and C) are married Couple.



1. How many male members are there?

Sol. 4

2. How many children A have?

Sol. 3

3. Who is the mother of B?

Sol. A

4. Who is the brother of E?

Option (a) A (b) B (c) C (d) None of these

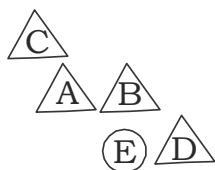
Sol. (c) C

5. Who is the wife of C?

Sol. (c) A

Ex.3 In a family A is the brother of B, C is the father of A, D is the brother of E and E is a daughter of B then the uncle of D is?

Sol. (a)



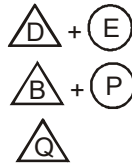
(a) A

(b) B

(c) C

(d) E

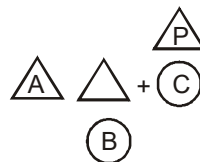
4. In a family B is the husband of P, Q is the only grandson of E, who is the wife of D. E is the mother-in-law of P.



How is B related to D?

Ans. ® Son (B is the son of D)

5. In a family A is the uncle of B who is the daughter of C, C is a daughter-in-law of P, then how is A related to P?



\ A is the son of P.

6. There are 6 members of a family A, B, C, D, E and F

- (i) The member of males is equal to number of female i.e.,

Total 6 So, M = F = 3

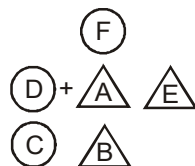
- (ii) A and E are son of F

- (iii) D is the mother of two, one boy & one girl

- (iv) B is a son of A.

- (v) There is one married couple in the family at present

- Q. How is C related to A?



C is a daughter of A.

7. Is D brother of A, To Find out the answer which of the following information in the statements A & B are sufficient?

**Statements A:-**

B has two sons of which F is one

**Statements B:-**

D's mother is married to B.

option (A)- Both A & B are both together needed

(B) - Both A and B together are not sufficient

(C) - Only A is sufficient

(D) - Only B is sufficient

### TYPE - II

#### CODED RELATIONSHIP

Ex. 8

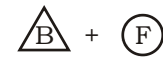
I. 'P × Q' means 'P is the father of Q'

II. P ÷ Q' means 'P is a daughter of Q'

III. 'P + Q' means 'P is a Sister of Q'

IV. 'P - Q' means 'P is the husband of Q'

1. B × H + D ÷ F



How is F related to H?

F is the mother of H.

How is B related to F.

B is the husband of F.

2. F ÷ T × A - M then How is A related to F & How is T related to M.



Þ A is the brother of F.

Þ T is the Father-in-law of M.

3. G - R + P ÷ T then. How is G related to T?



G is the son-in-law of T.

Ex.9. I. 'P \$ Q' means 'P is the mother of Q'

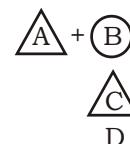
II. 'P # Q' means 'P is the father of Q'

III. 'P @ Q' means 'P is the husband of Q'

IV. 'P % Q' means 'P is a daughter of Q'

1. A @ B \$ C # D. How is A related to D?

Sol.



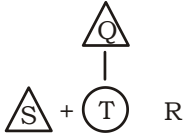
- Grand father (Dada)  
2.  $T \$ P @ R$ . How is R related to T?

(T)

(P) + (R)

Daughter-in-law

3.  $S @ T \% Q \# R$ . How is T related to R?



® T is the sister of R

4. Which of the following expression means R is Sister of H  
(a)  $H @ D @ F \# R$   
(b) (R) \$ D @ F \$ H

- (c)  $H \% D @ F \$ R$   
(d)  $R \% D @ F \$ H$

Ans. (d) (D) + (F)

(R) H

5. Which of the following expression mean H is the brother of N

- (a) (H) \$ R \$ D \$ N  
(b)  $N \% F @ D \$ \triangle H \# R$   
(c)  $N \% F @ D \$ H$   
(d)  $N \% F @ \triangle H \# H$

Sol. (b)  
H is a male in option b only \ is correct.

Ex.  $A + B \text{ ® } A$  is the father of B  
 $A - B \text{ ® } A$  is the sister of B

$A \times B \text{ ® } A$  is the husband of B.  
 $A \div B \text{ ® } A$  is the wife of B.

6. Which of the following expressions means P is Grandmother of Q.

Options:

- (a) (P) ÷ R + S × T - U × Q  
(b)  $R \div \triangle P + S - T + Q \times V$   
(c)  $Q \div R + S - T + (P) \div U$   
(d) (P) ÷ R + S - T + Q × U

Ans. (b)

(+) ® show us generation gap  
1 plus (a) ® 1 generation gap  
2 (+) ® 2 generation gap  
in (a) ® between P and Q  
® only one (+)  
C and D Can be possible.  
Now we see P comes first or not if P comes

## EXERCISE

**Note:** [First eliminate on the bases of Gender then eliminate on the basis of Generation then see upper Generation comes first then the lower Generation to get answer without solving]

- Pointing to a man in a photograph a woman says "He is the father of my only daughter-in-law's father-in-law." How is man related to woman?  
(a) Father  
(b) Brother  
(c) Husband  
(d) Father-in-law
- Pointing to a woman in a photograph a man says "she is the only daughter of my wife's mother-in-law." How is the woman related to the man?  
(a) Daughter  
(b) Wife  
(c) Sister  
(d) Sister-in-law
- Pointing to woman in a photograph a man says she is the only daughter of my father's mother in law. How is woman related to the man ?

- (a) Daughter  
(b) Mother  
(c) Daughter-in-law  
(d) Mother-in-law
- Pointing to a photograph a woman says "He is the only son of the daughter of my mother-in-law's only son. How is the man related to woman?  
(a) Husband  
(b) Brother  
(c) Brother-in-law  
(d) Nephew
- Pointing to a photograph a woman says "He is the only son of the wife of my husband's father. How is the man related to woman ?  
(a) Son  
(b) Son-in-law  
(c) Brother-in-law  
(d) Husband
- Pointing to a man in a photograph a woman says. He is the father-in-law of the wife only paternal grandson of my own father-in-law. How is woman related to man?

- (a) son (b) husband  
(c) cousin (d) nephew

- Pointing to a woman in a photograph a man says she is the mother-in-law of the wife of the father of my only son. How is the woman related to man?  
(a) daughter  
(b) wife  
(c) daughter-in-law  
(d) mother
- Pointing towards Rita, Sushant said I am the only son of her mother's son. How is Rita related to Sushant ?  
(a) Aunt (b) Niece  
(c) Mother (d) Cousin
- Introducing A man, a woman said. He is the only son of my mother's mother. How is the woman related to the man.  
(a) Mother (b) Aunt  
(c) Cousin (d) Niece
- Pointing to a boy Veena said, "He is the son of only son of my grandfather". How is that boy related to Veena?

- (a) Uncle  
(b) Brother  
(c) Cousin  
(d) Data inadequate
11. A woman introduces a man as the son of the brother of her mother. How is the man related to the woman?  
(a) Nephew (b) Son  
(c) Cousin (d) Niece
12. Pointing to a photograph Pradeep said "She is the mother of My son's Wife's daughter. How is Pradeep related to the lady ?  
(a) Uncle  
(b) Cousin  
(c) Daughter-in-law  
(d) None of these
13. Introducing a man to her husband a woman said "His brother's father is the only son of my grandfather". How is the woman related to this man?  
(a) Mother (b) Aunt  
(c) Sister (d) Daughter
14. Sushant said "This girl is the wife of the grandson of my mother. How is Sushant to the girl?  
(a) Father  
(b) Grandfather  
(c) Husband  
(d) Father-in-law
15. Pointing to Pradeep Namrata said " He is the son of my father's only son. How is Pradeep's mother related to Namrata?  
(a) Daughter  
(b) Aunt  
(c) Sister  
(d) Sister-in-law
16. A man said to a lady "your mother's husband's sister is my Aunt. How is lady related to the man?  
(a) Daughter (b) Grand daughter  
(c) Mother (d) Sister
17. Pointing to a photograph, a lady tells Shakti, "I am the only daughter of this lady and her son is your maternal uncle". How is the speaker related to Shakti's father?  
(a) Sister-in-law  
(b) Wife  
(c) Either a or b  
(d) Neither a nor b
18. If A is the mother of B. C is the son of A, D is the brother of E, E is the daughter of B. Who is the grandmother of D?  
(a) A (b) B  
(c) C (d) D
19. B is the mother of D and C is the brother of D. H is the daughter of E. D is the wife of E. What is the relation of E to C?  
(a) Father in-law  
(b) Brother-in-law  
(c) Uncle  
(d) Brother
20. A and B are sisters. R and S are brothers. Daughter of A is sister of R. How is B related to S?  
(a) Mother (b) Grand mother  
(c) Sister (d) Aunt
21. Pointing to Abhay, Shilpa said, "His mother's brother is the father of my son Ashish. How is Abhay related to Shilpa?  
(a) Sister-in-law (b) Nephew  
(c) Niece (d) Aunt
22. Pointing to a woman, Sushant said, "She is the daughter of the only child of my grandmother. How is the woman related to Sushant?  
(a) Sister  
(b) Niece  
(c) Cousin  
(d) Data inadequate
23. Pointing to an old man Satya said, "His son is my son's uncle". How is the old man related to Satya  
(a) Brother (b) Uncle  
(c) Father (d) Grandfather
24. A is the sister of B. B is the brother of C, C is the son of D. How is A related to D?  
(a) Mother (b) Daughter  
(c) Son (d) Uncle
25. A is the brother of B, C is the father of D, E is the mother of B. A and D are brother. How is E related to C?  
(a) Sister (b) Sister-in-law  
(c) Niece (d) Wife
26. P is the brother of Q. R is the mother of Q, S is the father of R, T is the mother of S. How is P related to T?  
(a) Grand-daughter  
(b) Great grandson  
(c) Grandson  
(d) Grandmother
27. F is the brother of A. C is the daughter of A, K is the sister of F. G is the brother of C. Who is the uncle of G?  
(a) A (b) C  
(c) F (d) K
28. B is the husband of P. Q is the only grandson of E, who is wife of D and mother-in-law of P. How is B related to D?  
(a) Nephew (b) Cousin  
(c) Son-in-law (d) Son
29. A is the uncle of B, who is the daughter of C and C is the daughter-in-law of P. How is A related to P?  
(a) Brother  
(b) Son  
(c) Son-in-law  
(d) None of these
30. Deepak is brother of Sushant Reena is a sister of Atul. Sushant is son of Reena. How is Deepak related to Reena?  
(a) Son (b) Brother  
(c) Nephew (d) Father
31. E is the son of A, D is the son of B. E is married to C. C is B's daughter. How is D related to E ?  
(a) Brother  
(b) Uncle  
(c) Father-in-law  
(d) brother-in-law
32. If X is brother of son of Y's son, then how is X related to Y ?  
(a) Brother (b) Cousin  
(c) Grandson (d) Son

### TYPE – III

#### CODED BLOOD RELATIONSHIP FORWARD TYPE CODING

- (i) P + Q means P is the father of Q.  
(ii) P – Q means P is the mother of Q.

- (iii)  $P \times Q$  means P is the brother of Q.  
 (iv)  $P \div Q$  means P is the sister of Q.  
 (v)  $P \star Q$  means P is the son of Q.  
 (vi)  $P \# Q$  means P is the daughter of Q.

**Trick**—First we write coding of relation in one place

Father +	— Mother
Brother $\times$	$\div$ Sister
Son $\star$	# Daughter

33. How is A related to F in the given expression?

$$A + B \times C \div D \star E \# F$$

- (a) Son  
 (b) Son-in-law  
 (c) Brother  
 (d) Father-in-law

34. How is A related to F in the given expression?

$$A \star B \div C \# D + E \star F$$

- (a) Paternal Grandson  
 (b) Maternal grandson  
 (c) Paternal granddaughter  
 (d) Maternal granddaughter

35. How is A related to F in the given expression?

$$A \# B + C \star D - E \div F$$

- (a) Brother (b) Cousin  
 (c) Sister (d) Father

36. How is A related to F in the given expression?

$$A \star B \# C - D + E \div F$$

- (a) Brother (b) Sister  
 (c) Father (d) Cousin

37. How is A related to F in the given expression?

$$A + B \div C \times D \div E \# F$$

- (a) Brother (b) Father  
 (c) Cousin (d) Husband

38. How is F related to A in the given expression?

$$A \# B - C \star D + E \div F$$

- (a) Brother  
 (b) Sister  
 (c) Brother or Sister  
 (d) Cousin

39. How is F related to A in the given expression?

$$A \star B \times C \# D - E \star F$$

- (a) Father  
 (b) Paternal grandfather  
 (c) Maternal grandfather  
 (d) Uncle

### Directions (40-42) :-

- (i)  $A \times B$  means A is father of B.  
 (ii)  $A + B$  means A is daughter of B.  
 (iii)  $A - B$  means A is brother of B.  
 (iv)  $A \div B$  means A is mother of B.

Father $\times$	$\div$ Mother
Daughter +	— Brother

40. If  $P \times T \div Q + R$ , how is R related to P?

- (a) Daughter  
 (b) Husband  
 (c) Son-in-law  
 (d) Son-in-law or daughter-in-law

41. If  $P \div R - Q \times T$ , how is P related to T?

- (a) Grandmother  
 (b) Mother-in-law  
 (c) Sister  
 (d) Grandfather

42. If  $P \div Q + R \times T$ , how is T related to Q?

- (a) Aunt  
 (b) Sister  
 (c) Brother  
 (d) None of these

### Directions (43-46):-

- (i)  $A - B$  means A is father of B.  
 (ii)  $A + B$  means A is daughter of B.  
 (iii)  $A \div B$  means A is son of B.  
 (iv)  $A \times B$  means A is wife of B.

Father —	$\times$ Wife
Son $\div$	+ Daughter

43. How is P related to T in the expression  $P + S - T$ ?

- (a) Sister (b) Wife  
 (c) Son (d) Daughter

44. In the expression  $P \times Q - T$  how is T related to P?

- (a) Daughter  
 (b) Son

- (c) Mother  
 (d) Can't be determined

45. Which of the following means S is maternal grandson of P?

- (a)  $P + Q - S \times R$  (b)  $P \div Q \times S$   
 (c)  $P \div Q + S$  (d)  $P \times Q \div S$

46. How is F related to A in given expression?

$$A \star B \times C \div D \times E - F$$

- (a) Brother  
 (b) Sister  
 (c) Cousin  
 (d) Can't say

### TYPE - IV BACKWARD TYPE

- (i)  $A + B$  means B is the father of A.

- (ii)  $A - B$  means B is the mother of A.

- (iii)  $A \times B$  means B is the brother of A.

- (iv)  $A \div B$  means B is the sister of A.

- (v)  $A \star B$  means B is the son of A.

- (vi)  $A \# B$  means B is the daughter of A.

47. How is P related to U in the given expression?

$$U - T \# S \star Q \# P$$

- (a) Daughter  
 (b) Sister  
 (c) Granddaughter  
 (d) Aunt

48. How is P related to U in the given expression?

$$U \times T + S \star R \div Q \star P$$

- (a) Brother (b) Son  
 (c) Cousin (d) Nephew

49. How is P related to U in the given expression?

$$U + T \times S \div R \times Q + P$$

- (a) Father  
 (b) Paternal grandfather  
 (c) Great grandfather  
 (d) None of these

50. How is P related to U in the given expression?

$$U + T \star S \times R - Q \times P$$

- (a) Father

- (b) Paternal uncle  
(c) Maternal Uncle  
(d) Grandfather
51. How is U related P in the given expression?  
 $U \# T \times S \div R \times Q + P$   
 (a) Husband (b) Wife  
 (c) Sister (d) Mother-in-law
52. In a joint family, there are father, mother, 3 married sons and one unmarried daughter. Of the sons two married son have 2 daughters each, and one has a son. How many female members are there in the family?  
 (a) 2 (b) 3  
 (c) 6 (d) 9
53. If X is brother of son of Y's son, then how is X related to Y?  
 (a) Brother (b) Cousin  
 (c) Grandson (d) Son
54. Given that  
 1. A is the mother of B  
 2. C is the son of A  
 3. D is the brother of E  
 4. E is the daughter of B.  
 The grandmother of D is  
 (a) A (b) B  
 (c) C (d) E
55. A, B and C are sisters. D is the brother of E and E is the daughter of B. How is A related to D?  
 (a) Sister (b) Cousin  
 (c) Niece (d) Aunt
56. A and B are married couple. X and Y are brothers. X is the brother of A. How is Y related to B?  
 (a) Brother-in-law  
 (b) Brother  
 (c) Cousin  
 (d) Grandfather
57. Sushant has a brother Chinmay. Sushant is the son of Prem. Bimal is Prem's father. In terms of relationship, what is Chinmay of Bimal?  
 (a) Son (b) Grandson  
 (c) Brother (d) Grandfather
58. F's father is Q's son. M is the paternal uncle of P and N is the brother of Q. How is N related to M?  
 (a) Brother  
 (b) Nephew  
 (c) Cousin  
 (d) Data inadequate  
 (e) None of these
59. If (i) M is brother of N; (ii) B is brother of N; and (iii) M is brother of D, then which of the following statements is definitely true?  
 (a) N is brother of B  
 (b) N is brother of D  
 (c) M is brother of B  
 (d) D is brother of M  
 (e) None of these
60. Q is the brother of R; P is the sister of Q; T is the brother of S; S is the daughter of R. Who are the cousins of Q?  
 (a) R and P (b) P and T  
 (c) Q and T (d) S and T  
 (e) None of these
61. Introducing a man to her husband a woman said "His brother's father is the only son of my grandfather". How is the woman related to his man?  
 (a) Mother (b) Aunt  
 (c) Sister (d) Daughter
62. Q's mother is sister of P and daughter of M. S is daughter of P and sister of T. How is M related to T?  
 (a) Grandmother  
 (b) Father  
 (c) Grandfather  
 (d) Grandfather or Grandmother  
 (e) None of these
63. D, the son-in-law of B, who is the brother-in-law of A who is the brother of C. How is A related to B?  
 (a) Brother  
 (b) Son  
 (c) Father  
 (d) Data inadequate  
 (e) None of these
- Direction (Q. 64-65):-** Read the following information and answer the questions given below it:  
☐ A is the father of C. But C is not his son  
☐ E is the daughter of C. F is the spouse of A.  
☐ B is the brother of C. D is the son of B.  
☐ G is the spouse of B. H is the father of G.
64. Who is the grandmother of D?  
 (a) A (b) C  
 (c) F (d) H
65. Who is the son of F?  
 (a) B (b) C  
 (c) D (d) E
66. C is A's father's nephew. D is A's cousin but not the brother of C. How is D related to C?  
 (a) Father (b) Sister  
 (c) Mother (d) Aunt
67. P is the son of Q while Q and R are the sisters to one another. T is the mother of R. If S is the son of T, which of the following statements is correct?  
 (a) T is the brother of Q  
 (b) S is the cousin of P  
 (c) Q and S are sisters  
 (d) S is the maternal uncle of P  
 (e) R is the grandfather of P
68. A is the brother of B. B is the brother of C. D is the father of A. Based on these three statements, which of the following statements cannot be definitely true?  
 (a) B is the brother of A  
 (b) B is the son of D  
 (c) A is the brother of C  
 (d) C is the brother of A  
 (e) A, B and C are D's children
69. A is father of X; B is mother of Y. The sister of X and Z is Y. Which of the following statements is definitely not true?  
 (a) B is the mother of Z  
 (b) X is the sister of Z.  
 (c) Y is the son of A  
 (d) B has one daughter  
 (e) B is the wife of A
70. P's father Q is B's paternal uncle. How is A related to B?  
 (a) Cousin  
 (b) Aunt  
 (c) Mother  
 (d) Data inadequate  
 (e) None of these

71. Shobha is the niece of Ashish. Ashish's mother is Priya. Kamla is Priya's mother. Kamla's husband is Hari. Krishna is the mother-in-law of Hari. How is Shobha related to Hari?  
 (a) Daughter  
 (b) Great grand daughter  
 (c) Grand niece  
 (d) Great grandson's daughter
72. Pointing to a photograph, a man said, "I have no brother or sister but that man's father is my father's son." Whose photograph was it?  
 (a) His own  
 (b) His son's  
 (c) His father's  
 (d) His nephew's  
 (e) None of these
73. Introducing Reena, Monika said, "She is the only daughter of my father's only daughter." How is Monika related to Reena?  
 (a) Mother  
 (b) Niece  
 (c) Cousin  
 (d) Data inadequate  
 (e) None of these
74. Pointing to a man, a woman said, "His mother is the only daughter of my mother." How is the woman related to the mother?  
 (a) Mother (b) Daughter  
 (c) Sister (d) Grandmother  
 (e) None of these
75. If X is the brother of the son of Y's son, how is X related to Y?  
 (a) Son (b) Brother  
 (c) Cousin (d) Grandson  
 (e) Uncle
76. Pointing to a lady, a man said, "The son of her only brother is the brother of my wife." How is the lady related to the man?  
 (a) Mother's sister  
 (b) Grandmother  
 (c) Mother-in-law  
 (d) Sister of father-in-law  
 (e) Maternal uncle
77. Pointing to a man on the stage, Rashmi said, "He is the brother of the daughter of the wife of my husband." How is the man on the stage related to Rashmi?  
 (a) Son (b) Husband  
 (c) Cousin (d) Nephew  
 (e) Brother-in-law
78. Looking at a portrait of a man, Harsh said, "His mother is the wife of my father's son. Brother and sisters I have none." At whose portrait was Harsh looking?  
 (a) His son (b) His cousin  
 (c) His uncle (d) His nephew  
 (e) None of these
79. Pointing to a man in a photograph, Asha said, "His mother's only daughter is my mother." How is Asha related to that man?  
 (a) Nephew (b) Sister  
 (c) Wife (d) Niece  
 (e) Grand daughter
80. Introducing a man, a woman said, "His wife is the only daughter of my father." How is that man related to the woman?  
 (a) Brother  
 (b) Father-in-law  
 (c) Maternal uncle  
 (d) Husband  
 (e) None of these
81. Pointing to a girl in the picture, Sarita said, "She is the mother of Neha whose father is my son." How is Sarita related to the girl in the picture?  
 (a) Mother  
 (b) Aunt  
 (c) Cousin  
 (d) Data inadequate  
 (e) None of these
82. Deepak said to Nitin, "That boy playing football is the younger of the two brothers of the daughter of my father's wife." How is the boy playing football related to Deepak?  
 (a) Son (b) Brother  
 (c) Cousin (d) Nephew  
 (e) Brother-in-law
83. Pointing to a lady on the platform, Manju said, "She is the sister of the father of my mother's son." Who is the lady to Manju?  
 (a) Mother (b) Sister  
 (c) Aunt (d) Niece  
 (e) None of these
84. When Anuj saw Manish, he recalled, "He is the son of the father of my daughter's mother. Who is Manish to Anuj?  
 (a) Brother-in-law (b) Brother  
 (c) Cousin (d) Uncle  
 (e) Nephew
85. Showing the man receiving the prize, Saroj said, "He is the brother of my uncle's daughter. Who is the man to Saroj?  
 (a) Son  
 (b) Brother-in-law  
 (c) Nephew  
 (d) Uncle  
 (e) Cousin
86. Pointing to a girl in the photograph, Amar said, "Her mother's brother is the only son of my mother's father." How is the girl's mother related to Amar?  
 (a) Mother (b) Sister  
 (c) Aunt (d) Grandmother  
 (e) None of these
87. X introduces Y saying, "He is the husband of the grand-daughter of the father of my father." How is Y related to X?  
 (a) Brother (b) Son  
 (c) Brother-in-law (d) Nephew  
 (e) Son-in-law
88. Kamal says, "Ravi's mother is the only daughter of my mother", how is Kamal related to Ravi?  
 (a) Grandfather  
 (b) Father  
 (c) Brother  
 (d) Cannot be determined  
 (e) None of these
89. Rahul said Anand, "Yesterday I defeated the only brother of the daughter of my grandmother." Whom did Rahul defeat?

- (a) Son  
(b) Father  
(c) Brother  
(d) Father-in-law  
(e) Cousin
90. Pointing to a photograph, a person said his friend, "She is the grand daughter of the elder brother of my father." How is the girl in the photograph related to this man?  
(a) Niece (b) Sister  
(c) Aunt (d) Sister-in-law  
(e) Maternal aunt
91. Neena says, "Anita's father Raman is the only son of my father-in-law Mahipal", then how is Bindu, who is the sister of Anita related to Mahipal?  
(a) Niece (b) Daughter  
(c) Wife (d) Daughter-in-law  
(e) None of these
92. Pointing to the woman in the picture, Rajiv said, "Her mother has only one grandchild whose mother is my wife." How is the woman in the picture related to Rajiv?  
(a) Cousin  
(b) Wife  
(c) Sister  
(d) Data inadequate  
(e) None of these
93. A girl introduced a boy as the son of the daughter of the father of her uncle. The boy is girl's.  
(a) Brother (b) Son  
(c) Uncle (d) Son-in-law  
(e) Nephew
94. Pointing to a gentleman, Deepak said, "His only brother is the father of my daughter's father." How is the gentleman related to Deepak?  
(a) Grandfather (b) Father  
(c) Brother-in-law (d) Uncle  
(e) None of these
95. Pointing to a lady, a girl said, "She is the daughter-in-law of the grandmother of my father's only son." How is the lady related to the girl?  
(a) Sister-in-law  
(b) Mother  
(c) Aunt  
(d) Mother-in-law  
(e) Cousin
96. Pointing to a person, a man said to a woman, "His mother is the only daughter of your father." How was the woman related to the person?  
(a) Aunt (b) Mother  
(c) Wife (d) Daughter  
(e) None of these
97. Pointing to a man in a photograph, a woman said, "His brother's father is the only son of my grandfather." How is the woman related to the man in the photograph?  
(a) Mother (b) Aunt  
(c) Sister (d) Daughter  
(e) Grandmother
98. Sushant said, "This girl is the wife of the grandson of my mother." Who is Sushant to the girl?  
(a) Father (b) Grandfather  
(c) Husband (d) Father-in-law

## ANSWER KEY

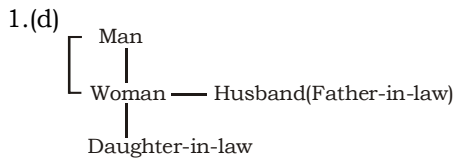
### EXERCISE - I

1. (d)	11. (c)	21. (b)	31. (d)	41. (a)	51. (b)	61. (c)	71. (b)	81. (e)	91. (e)
2. (c)	12. (c)	22. (a)	32. (c)	42. (d)	52. (d)	62. (d)	72. (b)	82. (d)	92. (b)
3. (b)	13. (c)	23. (c)	33. (b)	43. (a)	53. (c)	63. (b)	73. (e)	83. (c)	93. (a)
4. (a)	14. (d)	24. (b)	34. (b)	44. (d)	54. (a)	64. (c)	74. (a)	84. (a)	94. (d)
5. (d)	15. (d)	25. (d)	35. (a)	45. (a)	55. (d)	65. (a)	75. (d)	85. (e)	95. (b)
6. (b)	16. (d)	26. (b)	36. (d)	46. (d)	56. (a)	66. (b)	76. (d)	86. (c)	96. (b)
7. (d)	17. (d)	27. (c)	37. (d)	47. (c)	57. (b)	67. (d)	77. (a)	87. (c)	97. (c)
8. (a)	18. (a)	28. (d)	38. (c)	48. (d)	58. (d)	68. (d)	78. (a)	88. (e)	98. (d)
9. (d)	19. (b)	29. (b)	39. (b)	49. (b)	59. (c)	69. (c)	79. (d)	89. (b)	
10. (b)	20. (d)	30. (a)	40. (c)	50. (c)	60. (d)	70. (c)	80. (d)	90. (a)	

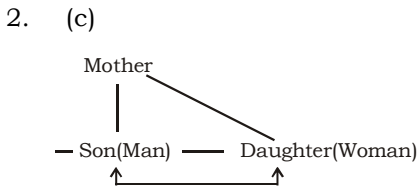




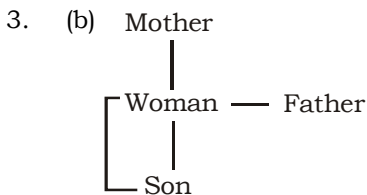
## SOLUTION



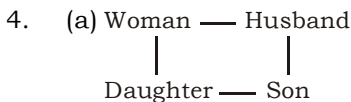
Daughter-in-law's Father-in-law = Husband(of woman)  
Husband's father = Father-in-law



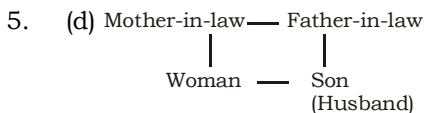
Wife's mother-in-law = mother of man  
Daughter of mother = Sister



Father's mother in law = Maternal grand mother  
Maternal grandmother's daughter = Mother of man who is pointing.



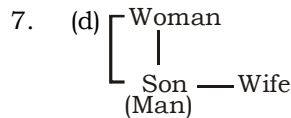
Mother-in-law's only son = Husband  
Daughter of husband = Daughter



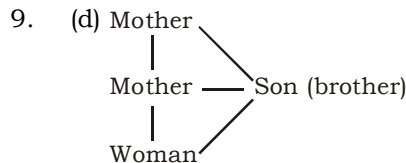
Husband's father = Father-in-law  
Wife of father-in-law = Mother-in-law  
Son of mother-in-law = Husband

6. (b) Paternal grandson of my father-in-law = Husband's son

or nephew  
Wife of my son = my daughter-in-law  
Father-in-law of my daughter - in-law = Husband

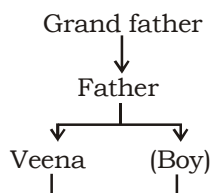


Rita's mother's son = Rita's brother  
Sushant is son fo Rita's brother, Rita is aunt of Sushant

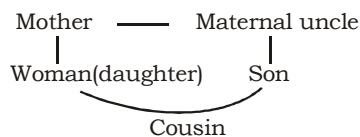


Mother's mother = Maternal grandmother maternal  
Grand mother's only son maternal uncle  
So the woman in man's niece.

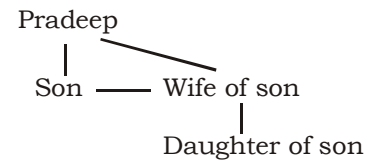
10. (b) Only son of grand father = Father of Veena  
Son of father = Brother of Veena



11. (c) Brother of her mother = Maternal uncle  
Son of maternal uncle = Cousin of woman



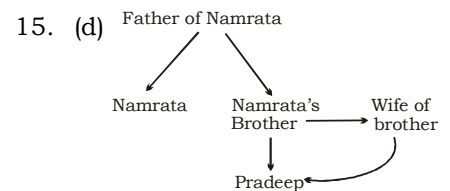
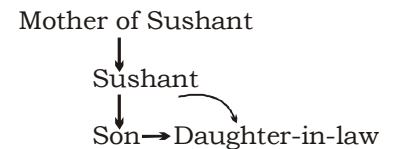
12. (c) Mother of My son's wife's daughter = Wife of my son  
Wife of son = Daughter-in-law of Pradeep



13. (c) Only son of woman's grandfather = woman's father  
Man's brother's father = Man's father

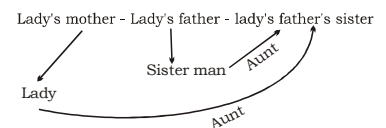
So man's father is woman's father woman is a sister of man

14. (d) Mother's grandson = son of Arun  
Wife of son = daughter-in-law

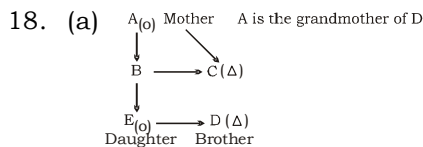
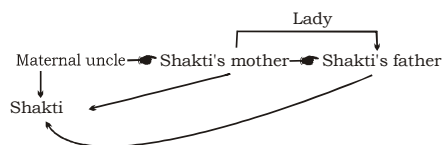


Namrata's father's only son - Namrata's brother, so Pradeep is a son of Narmata's brother. Thus Pradeep's mother is the wife of Namrata's brother  
So Namrata is sister-in-law of Pradeep's mother.

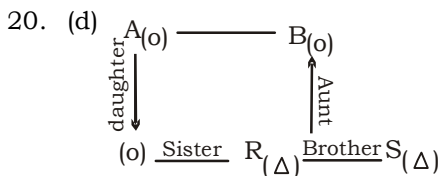
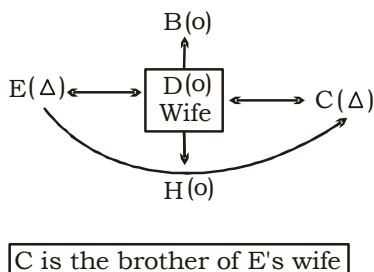
16. (d) Lady's mother's husband = Lady's father  
Lady's father's sister = Lady's aunt  
So lady's aunt is mans aunt and therefore lady is man's sister



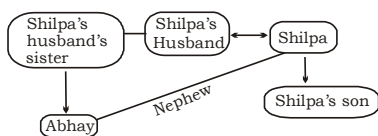
17. (d) The speaker's brothers is Shakti's maternal uncle so the speaker is Shakti's mother or his father's wife.



19. (b)

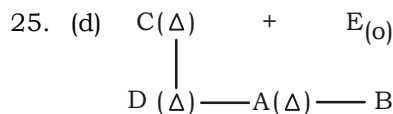
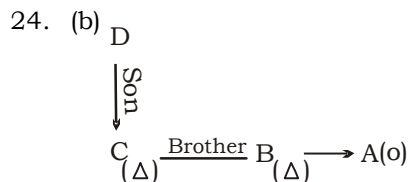
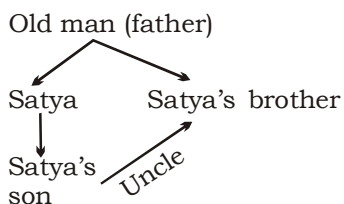


21. (b) Father of Shilpa's son = Shilpa's Husband so Abhay is the son of sister of Shilpa's husband Abhay is Shilpa's nephew.

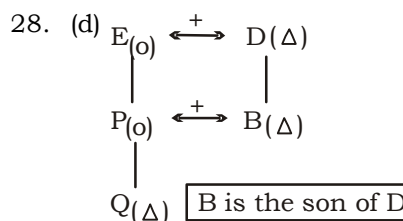
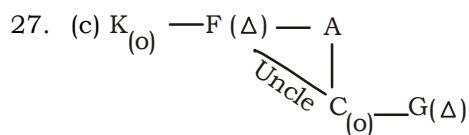
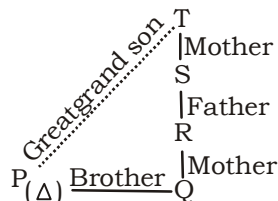


22. (a) Only child of Sushant's grandmother = Sushant's father/mother.  
Daughter of Sushant's father/mother - Sushant's Sister

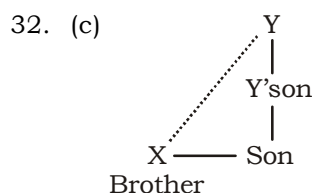
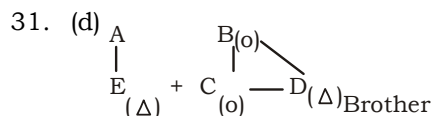
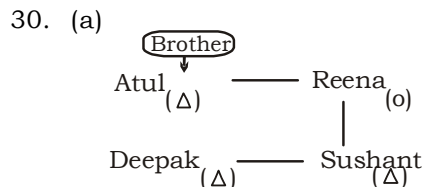
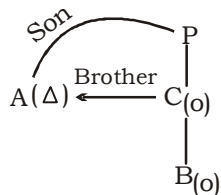
23. (c) Satya's son's uncle = Satya's brother so the old man's son is Satya's brother  
The old man is Satya's father



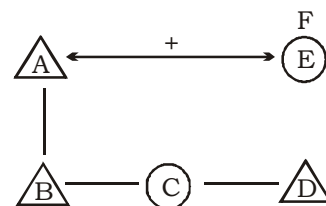
26. (b)



29. (b)

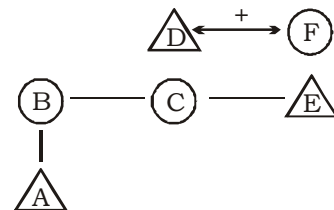


33. (b)



According to diagram A is son-in-law of F.

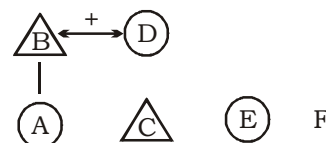
34. (b)



So according to the diagram F is mother of B and B is mother of A. So A is maternal grandson of F.

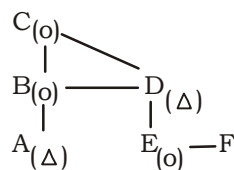
B, C and E are the son of D and F, If D is a male then F will be female and they are husband wife

35. (a)

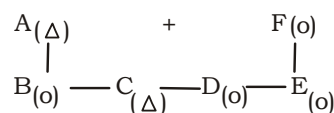


Q F's gender is not specify here, but A's mention that A is the sister of F

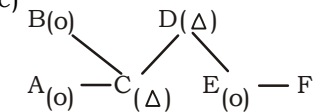
36. (d)



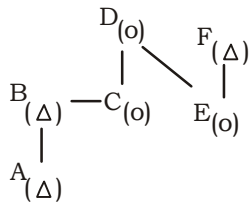
37. (d)



38. (c)



39. (b)

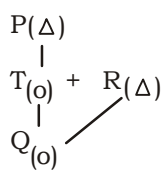


**Directions:-**

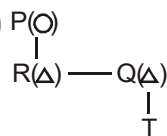
- (i)  $A \times B$  means A is father of B.
- (ii)  $A + B$  means A is daughter of B.
- (iii)  $A - B$  means A is brother of B.
- (iv)  $A \div B$  means A is mother of B.

Father	$\times$	Mother
Daughter	$+$	Brother

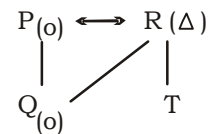
40. (c)



41. (a)



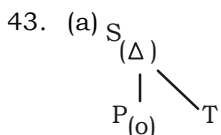
42. (d)



**Directions:-**

- (i)  $A - B$  means A is father of B.
- (ii)  $A + B$  means A is daughter of B.
- (iii)  $A \div B$  means A is son of B.
- (iv)  $A \times B$  means A is wife of B.

Father	$-$	Wife
Son	$\div$	Daughter



44. (d)  $P_{(o)} - Q_{(\Delta)}$   
 $\quad \quad \quad |$   
 $\quad \quad \quad T$

because T's gender not specify here

45. (a) here generation gap between P and S will be two and P will be male

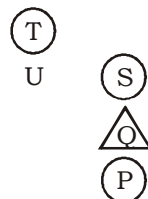
46. (d) **TYPE-IV BACKWARD TYPE**

- (i)  $A + B$  means B is the father of A.
- (ii)  $A - B$  means B is the mother of A.
- (iii)  $A \times B$  means B is the brother of A.
- (iv)  $A \div B$  means B is the sister of A.
- (v)  $A \star B$  means B is the son of A.
- (vi)  $A \# B$  means B is the daughter of A.

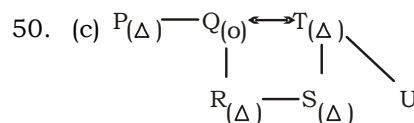
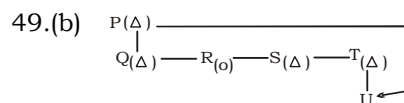
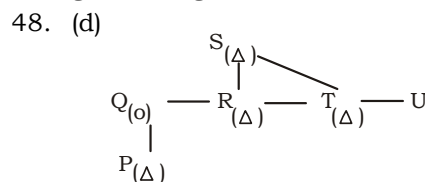
**Trick**—First we write coding of relation in one place

Father	$+$	Mother
Brother	$\times$	Sister
Son	$\star$	Daughter

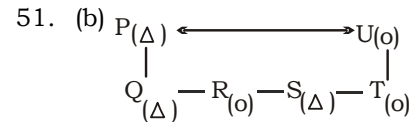
47. (c)



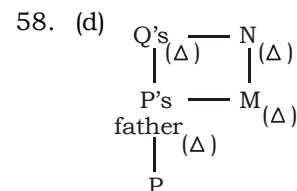
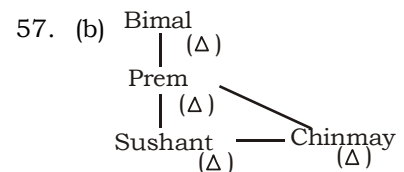
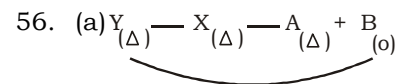
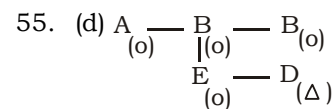
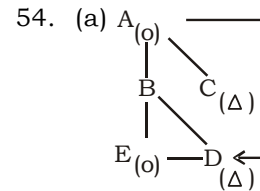
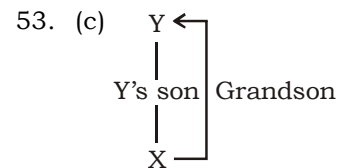
Thus, P is a female and granddaughter of U.



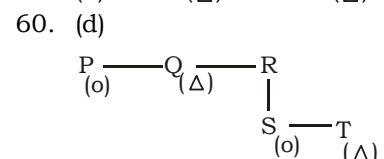
brother of mother = maternal uncle  
 brother of father = paternal uncle



52. (d) The female members in the family are mother, wives of 3 married son's unmarried daughter an 2 daughters of each of the two sons.  
 $(1 + 3 + 1 + 2 \times 2) = 9$

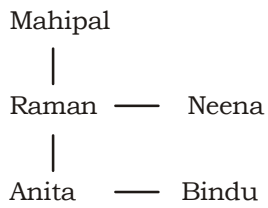


59. (c)  $D - M_{(\Delta)} - N - B_{(\Delta)}$

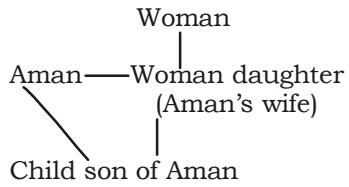




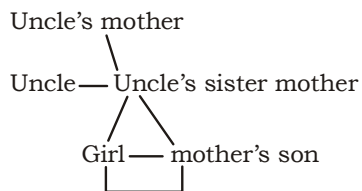
91. (e)



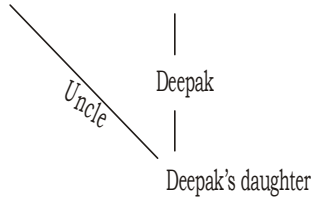
92. (b)



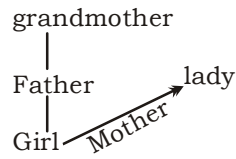
93. (a) Daughter of uncle's father -  
uncle's sister - mother -  
mother's son brother



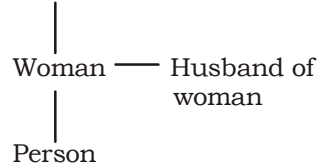
94. (d) Gentleman—gentle man's brother



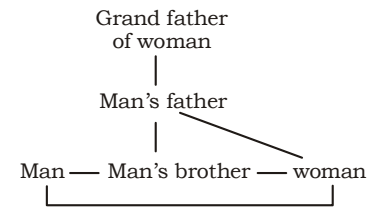
95. (b)



96. (b) Woman father



97. (c)



98. (d)

