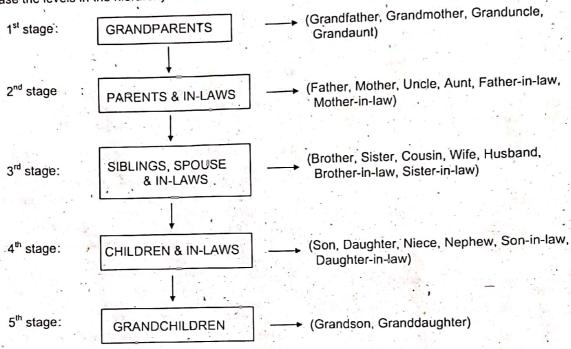
CHAPTER - VII **BLOOD RELATIONS**

There are two types of questions based on blood relations that are given in different competitive examinations. For the sake of convenience we will refer to the two types of questions as Type I and Type II. (Please note that the questions on blood relationships are not categorised as above in the actual exam papers. It is being done purely from the point of better understanding).

In the exams, the success of a candidate in the questions on blood relations depends upon his knowledge about various blood relations. Some of the relationships given below help in solving the problems.

The easiest and non-confusing way to solve these types of problems would be to draw a family tree diagram and increase the levels in the hierarchy as shown below:



Brother Mother's or Father's son

Mother's or Father's

Sister daughter

Mother's or Father's

Uncle brother Aunt Mother's or Father's sister:

Grandmother Mother's or Father's mother Grandfather Mother's or Father's father: Granduncle Grandmother's brother Grandaunt Grandmother's sister Granduncle Grandfather's brother Grandaunt Grandfather's sister Nephew Sister's or Brother's son Sister's or Brother's daughter Niece

Uncle or Aunt's son or

Cousin daughter Daughter-in-law Son's wife Son-in-law Daughter's husband Sister-in-law Husband's or Wife's sister Husband's or Wife's brother Brother-in-law Sister's husband Brother-in-law Brother's wife Sister-in-law

Siblings (could be all Children of same parents brothers, all sisters or some brothers and some sisters) Children Son, Daughter

Children's Children (Grandson, Granddaughter)

In addition, remember the word spouse which means either husband or wife.

Grandchildren

Grandfather and grandmother will come in the first stage; mother, father, uncle and aunt will come in the second stage; sister, brother and cousin will come at the third

stage; son, daughter, niece and nephew will come in the fourth stage and finally, granddaughters and grandsons will come. The above stages are made from the point of

view of an individual.

In Type - I questions, the relationship between two people is given through a roundabout way of relating them through other people. We have to go through the series of relationships and finally determine the relationship between the two people given in the question. The relationship can be given as a simple statement or as a statement made by a person. In the first example given below, a person is involved in making a statement whereas in the second question, there is no person involved in making a statement.

Worked out examples:

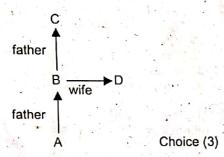
- A's father's mother-in-law's only daughter's son is
 - B. How is A related to B?
 - (1) Brother
 - (2) Sister
 - (3) Nephew
 - (4) Niece
 - (5) Cannot be determined

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But A can be either brother or sister to B.

Choice (5)

- If A's father is B, C is the father of B and D is A's mother, then How is C related to D?
 - (1) Father
- (2) Grandfather
- (3) Father-in-law
- (4) Uncle
- (5) Nephew
- Sol. A's father is B and mother is D. Therefore D is B's wife and C is the father of B. Hence C is D's father-in-law.



- 3. A + B means A is the son of B.
 - A B means A is the daughter of B.
 - A × B means A is the father of B.
 - A ÷ B means A is the mother of B.

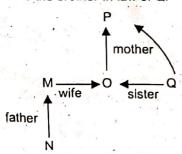
If $M \times N + O - P \div Q$, then how is M related to Q?

- (1) Husband
- (2) Cousin
- (3) Brother-in-law
- (4) Uncle
- (5) Father-in-law
- Sol. M × N + O P ÷ Q means M is the father of N, N is the son of O, O is the daughter of P, P is the mother of Q.

M is the father of N and N is the son of O means M is the husband of O.

O is the daughter of P and P is the mother of Q means O is the sister of Q.

M is the husband of O and O is the sister of Q means M is the brother-in-law of Q.



Choice (3)

- 4. A + B means A is the son of B.
 - A B means A is the daughter of B.
 - A x B means A is the father of B.
 - A + B means A is the mother of B.

Which of the following means S is the son-in-law of P?

- (1) $P + Q + R \times S T$
- (2) $P \times Q + R S + T$
- (3) $P + Q \times R S + T$
- (4) P×Q-R÷S×T
- (5) $P + Q R \div S \times T$
- **Sol.** $P + Q \div R \times S T$ means P is the son of Q. Q is the mother of R, R is the father of S and S is the daughter of T. Hence S is the nephew of P.

 $P \times Q \div R - S + T$ means P is the father of Q, Q is the mother of R, R is the daughter of S and S is the son of T. Hence S is the son-in-law of P.

 $R + Q \times R - S \div T$ means P is the son of Q, Q is the father of R, R is the daughter of S and S is the mother of T. Hence S is the mother of P.

 $P \times Q - R \div S \times T$ means P is the father of Q, Q is the daughter of R, R is the mother of S and S is the father of T. Hence S is the son of P.

Choice (2)

- 5. Pointing to a person, Raju said, "He is the only brother of my father's mother's daughter." How is the person related to Raju?
 - (1) Brother
- (2) Father
- (3) Uncle
- (4) Nephew

- (5) Son
- Sol: Raju's father's mother's daughter is Raju's father's sister. Raju's father's sister's only brother is Raju's father. Hence the person is Raju's father.

Choice (2)

- 6. A's mother's father is the husband of B's mother.
 How is A related to B, if A and B are both male.
 - (1) Uncle
- (2) Father
- (3) Nephew
- (4) Son
- (5) Brother
- Sol. A's mother's father is the husband of B's mother.

 That means A's mother is the sister of B. Hence all the nephew of B.

 Choice (3)

Exercise - 7

<i>Dire</i> alte	rnative from the given choices.	13.	Divya's father, pointing towards a person, said, "Ho is the brother of my father's only sibling". How is the person related to Divya?
1.	A person who is the husband of my son's sister is my (1) Nephew (2) Son-in-law (3) Son (4) Brother (5) Father	/ 	(1) Father (2) Uncle (3) Brother (4) Grandfather (5) Nephow
2.	Y is the daughter of X's brother's wife's father-in law. Y is X's (1) Niece (2) Daughter (3) Sister (4) Sister-in-law (5) Mother	14.	Tinku, introducing a person to Rinku, said "He is the father of your sister's son and he is also my mother's husband". How is Tinku's father related to Rinku's mother? (1) Nephew (2) Uncle
3.	Showing a photograph P said," She is my mother's mother's son's daughter". How is the person in the photograph related to P? (1) Sister (2) Cousin (3) Niece	15.	(3) Son-in-law (4) Father (5) None of these A is B's father, B is C's daughter, E is D's only the second of the s
4.	(4) Mother (5) None of these How is my father's mother's only daughter-in-law's sister related to me? (1) Aunt (2) Sister (3) Cousin (4) Niece (5) Mother		sibling. C is D's only daughter. How is B related to E's niece? (1) Niece (2) Granddaughter (3) Daughter (4) Mother (5) None of these
	How is my grandmother's only child's husband's mother related to me? (1) Mother (2) Grandmother (3) Aunt (4) Sister (5) Cousin		My father's only brother's wife's only daughter's paternal uncle is my mother's (1) Father-in-law (2) Husband (3) Son (4) Uncle (5) Father
6.	How is Ramu's mother-in-law's only daughter's son related to Ramu? (1) Nephew (2) Brother (3) Son (4) Uncle (5) Father	17.	My mother's brother's son's mother is related to my maternal aunt as (1) Sister-in-law (2) Cousin (3) Aunt (4) Mother-in-law (5) Mother
7.	How is my son's son's mother's daughter related to me? (1) Niece (2) Granddaughter (3) Daughter (4) Aunt (5) Mother	18.	Sanjana's brother-in-law is the son of Ramya. How is Sanjana's husband related to Ramya's husband if Sanjana had no siblings? (1) Nephew (2) Son (3) Son-in-law (4) Father-in-law
8.	How is my father's brother's only sibling's mother related to me? (1) Mother (2) Cousin (3) Daughter	19.	(5) Cannot be determined How is my mother's mother's only son-in-law's
9.	(4) Aunt (5) Grandmother A is the father of B. C is the son of D. E is the brother of C while D is the sister of B. How is B related to E?		sister related to me? (1) Mother-in-law (2) Sister (3) Aunt (4) Mother (5) Cousin
	(1) Uncle (2) Aunt (3) Mother (4) Father (5) Either (1) or (2)	20.	A's mother's son's only sister is B. How is A related to C, if B is the mother of C's daughter? (1) Brother (2) Brother-in-law
10.	My mother's sister's son's father's mother-in-law is related to me as (1) Mother (2) Grandmother		(3) Uncle (4) Nephew (5) Cousin
	(3) Mother-in-law (4) Aunt (5) Sister		ections for questions 21 to 25: Use the relations ined below and answer the following questions.
	How is David's father's only daughter-in-law's son's wife related to David? (1) Daughter (2) Daughter-in-law (3) Niece (4) Granddaughter (5) Mother	A - A × A ÷ A =	B means A is the mother of B. B means A is the sister of B. B means A is the father of B. B means A is the son of B. B means A is the brother of B. B means A is the daughter of B.
12	How is Ravi's mother's father's son related to Ravi's father? (1) Cousin (3) Brother-in-law (4) Son-in-law (5) Mother		Which of the following means P is the aunt of Q? (1) P − R ÷ Q (2) P + R × Q (3) P ≠ R × Q (4) P − R + Q (5) P × R = Q

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22. Which of the following means, S is the son of T's daughter?	Directions for questions 31 to 35: These questions are
(1) $T \times M + S + N$ (2) $T \times M + S = N$	based on the information given below.
(3) $T + M \times S - N$ (4) $S + M + T - N$	A, B, C, D, E and F are slx members of a family. A is the
(5) T × M + S ≠ N	mother of B, who is the husband of D. F is the brother of
23. Which of the following means W is the unclo of Z?	one of the parents of C. D is the daughter-in-law of E
(1) $W \times A - B + Z$ (2) $W = A + B - Z$	and has no siblings. C is the son of D.
(3) $W = A + B + Z$ (4) $W - A + B - Z$	31. How is C related to A?
(5) $W \times A \times B = Z$	(1) Nephew (2) Son-in-law
24 Which of the following manns C is the grandfather of	(3) Grandson (4) Father
24. Which of the following means C is the grandfather of both D and E?	(5) None of the above
(1) $C \times A \div D - E$ (2) $C + A + D \neq E$	
(3) $C \div A \neq D = E$ (4) $C \times A \times D - E$	32. How is F related to D?
(5) C ÷ A × D × E	(1) Cousin (2) Brother-in-law (3) Brother (4) Father
25 Which of the fellowing and the first of 12	(3) Brother (4) Father (5) None of these
25. Which of the following means I is the mother of L?	(b) Notice of these
(1) $I + B - C \neq D \times L$ (2) $I \neq B + C \times L$ (3) $I + B \times C \neq D - L$ (4) $I + B - C \times L$	33. How is E related to F?
(5) $I \times B \times C = D = L$	(1) Mother (2) Mother-in-law
(0) 1 3 . 0 - 0 - 1	(3) Father (4) Father-in-law
Directions for questions 26 to 30: Use the	(5) Sister
relationships given below and answer the questions	
followed.	34. If F is married to G, then how is G related to B?
P ↑ Q means P is the husband of Q	(1) Sister (2) Sister-in-law
P \$ Q means P is the father of Q.	(3) Cousin (4) Mother
P € Q means P is the mother of Q.	(5) None of these
P @ Q means P is the brother of Q.	35. How many male members are there in the family?
P O Q means P is the sister of Q.	(1) Two (2) Three
P Δ Q means P is the son of Q.	(3) Four (4) Five
$P \Rightarrow Q$ means P is the daughter of Q.	(5) Cannot be determined
P ↓ Q means P is the wife of Q.	
26. If A ∆ B £ C \$ D, then A is the of D.	Directions for questions 36 to 40: These questions are
(1) father (2) uncle	based on the information given below.
(3) brother (4) son	A Guella of sight simons has the same and sight
- (5) None of the above	A family of eight persons has three married couples. Amelie is the grandmother of Charles and is the mother-
	in-law of Floyd Helen is the daughter of Bob, who is the
27. E @ F ↓ G \$ H means	brother of George. Diana is the only child of George and
(1) H is the niece of E.(2) H is the nephew of E.	is the mother of Charles. Emma is the wife of Bob!
(3) E is the paternal uncle of H.	B H
(4) H is the father of E.	36. How is George related to Helen?
(5) Either (1) or (2)	(1) Uncle (2) Father
	(3) Brother (4) Cousin
28. $I \ J \Rightarrow K \Rightarrow L \ M \ means$	(5) None of these
(1) I is the son of M.	37. How is Helen related to Diana?
(2) I is the nephew of M.	(1) Sister (2) Daughter
(3) M is the father-in-law of I.	(3) Cousin (4) Mother
(4) I is the son-in-law of M.(5) M is the father of I.	(5) Father
(3) IN IS the father of i.	
29. If P \odot Q \triangle R $@$ S and T \downarrow S, then which among	38. Diana's mother is
the following is a true statement?	(1) Emma (2) Amelie
(1) S is the aunt of P.	(3) Helen (4) Floyd
(2) Q is the niece of S.	(5) None of these
(3) S is the father of P and Q.	
(4) P is the niece of S.	no lather to the fether of Florida
	39. Who is the father of Floyd?
(5) S is the father of P.	(1) George (2) Bob
(5) S is the father of P.	(1) George (2) Bob (3) Charles (4) None of these
(5) S is the father of P.30. If W ⇒ X Δ Y € Z, then which among the	(1) George (2) Bob
 (5) S is the father of P. 30. If W ⇒ X Δ Y £ Z, then which among the following is definitely true? 	(1) George (2) Bob (3) Charles (4) None of these (5) Data insufficient
 (5) S is the father of P. 30. If W ⇒ X Δ, Y £ Z, then which among the following is definitely true? (1) Z is the uncle of W. 	(1) George (2) Bob (3) Charles (4) None of these
 (5) S is the father of P. 30. If W ⇒ X Δ Y € Z, then which among the following is definitely true? (1) Z is the uncle of W. (2) W is the niece of Z. 	(1) George (2) Bob (3) Charles (4) None of these (5) Data insufficient 40. How is Charles father related to George's
 (5) S is the father of P. 30. If W ⇒ X Δ Y € Z, then which among the following is definitely true? (1) Z is the uncle of W. (2) W is the niece of Z. (3) W is the daughter of Z. 	 (1) George (2) Bob (3) Charles (4) None of these (5) Data insufficient 40. How is Charles father related to George's daughter?
 (5) S is the father of P. 30. If W ⇒ X Δ Y € Z, then which among the following is definitely true? (1) Z is the uncle of W. (2) W is the niece of Z. 	(1) George (2) Bob (3) Charles (4) None of these (5) Data insufficient 40. How is Charles father related to George's daughter? (1) Son (2) Uncle

Directions for questions 41 to 45: These questions are based on the information given below.

In a family of three generations, there are eight members, M and N are brothers. R is the grandson of Q. T is the only niece of M, P is the sister-in-law of N. O is the mother-in-law of S. There are three married couples in the family. T is the daughter of S.

41. How is R related to T	41.	How	is	R	rela	ted	to	Т	?
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- (1) Cousin
- (2) Uncle
- (3) Brother
- (4) Father
- (5) Cannot be determined

42. How is Q related to S?

- (1) Grandfather
- (2) Uncle (4) Father
- (3) Father-in-law
- (5) None of these
- 43. How is P related to O?
 - (1) Aunt
- (2) Mother
- (3) Daughter-in-law
- (4) Mother-in-law
- (5) Cousin
- 44. How is O related to R?
 - (1) Uncle
- (2) Grandmother
- (3) Aunt
- (4) Grandfather
- (5) Father
- 45. in the family the ratio of number of male members to that of female members
 - (1) 3:5
- (2) 5:3
- (3) 1:1
- (4) 2:3
- (5) None of these

Directions for question 46 to 50: These questions are based on the information given below.

In a family of eight members, there are two married couples and a widow. A, the engineer, is married to a doctor. C, an architect is the wife of D, E, a student is the only child of C.

G is the son of H and his sister F is the niece of the manager. B, a teacher, is the mother of only A and D.

- 46. Who is the manager?
 - (1) G
- (2) D
- (3) ·H

- (4) A
- (5) C
- 47. Who is the mother of F?
 - (1) A
- (2) B
- (3) F

- (4) C
- (5) Cannot be determined
- 48. B is related to G as _____
 - (1) Mother-in-law
- (2) Mother
- (3) Grandmother
- (4) Daughter-in-law
- (5) None of these
- 49. The profession of H is
 - (1) Manager
- (2) Engineer
- (3) Doctor
- (4) Teacher
- (5) None of these
- 50. The profession of G is
 - (1) Manager
- (2) Engineer
- (3) Doctor
- (4) Teacher
- (5) Data insufficient

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2.	3'	7.	2	12.	3	17.	1.	22.	2	27.	5	32.	2		37.	3	42.	3	47.	5
3.	2	8.	5	13.	4	. 18.	2	23.	2	28.	4	33.	3	1.	38.	2	43.	3	48.	3
4.	1	9.	5	14.	3	19.	3	24.	4	29.	4	. 34.	2		39.	. 5	44.	2	49.	3
5.	2	10.	2	15.	. 3	20.	2	25.	. 1	. 4 30:	2	35.	3		40.	3	45.	3 -	50.	5