

## CHAPTER 08

### **Blood Relations**

Blood relation between two individuals is defined as a relation between them by the virtue of their birth. Here, a chain of relationship is given in the form of information and the success of candidate depends upon his/her knowledge of blood relations.

These relationships can be used to solve various types of problems related to blood relations.

#### **Important Relations**

##### **Relations from paternal side**

<b>Relation</b>	<b>Relation name</b>
Father's father	Grandfather
Father's mother	Grandmother
Father's brother	Uncle
Father's sister	Aunt
Children of uncle or aunt	Cousin
Wife of uncle	Aunt
Husband of aunt	Uncle

##### **Relations from Maternal Side**

<b>Relation</b>	<b>Relation name</b>
Mother's father	Maternal grandfather
Mother's mother	Maternal grandmother
Mother's brother	Uncle
Mother's sister	Aunt
Children of maternal uncle or Aunt	Cousin
Wife of maternal uncle	Aunt
Husband of maternal aunt	Uncle

##### **Other Relations**

<b>Relation</b>	<b>Relation name</b>
Grandfather's or Grandmother's son	Father or Uncle
Grandfather's or Grandmother's only son	Father
Grandfather's or Grandmother's daughter	Aunt
Mother's or father's son	Brother

Relation	Relation name
Mother's or father's daughter	Sister
Son's wife	Daughter - in-law
Husband's or wife's sister	Sister-in-law
Daughter's husband	Son-in-law
Husband's or wife's brother	Brother-in-law
Brother's son	Nephew
Brother's daughter	Niece
Sister's husband	Brother-in-law
Brother's wife	Sister-in-law
Grandson's or Granddaughter's daughter or son	Great granddaughter or son

There are three types of questions, which are asked in competitive exams.

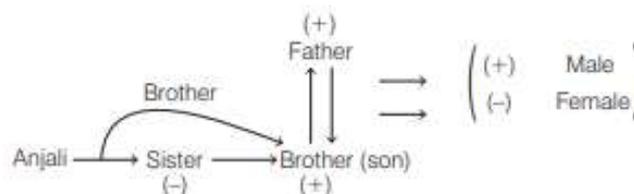
**1. Jumbled-up Descriptions-** In this type, a round about description is given in the form of certain small relationships and candidate is required to analyze the whole chain of relations and then find out the direct relationship between the concerned persons.

**Example 1:** Pointing towards a person in the photograph, Anjali said, 'He is the only son of the father of my sister's brother'. How is that person related to Anjali?

- (a) Mother (b) Father (c) Maternal uncle (d) Brother

**Sol. (d)** The relations may be analyzed as Sister's brother-Brother, Brother's father-Father. Father's son-Brother.

So, the person in the photograph is Anjali's brother as shown in the figure given below

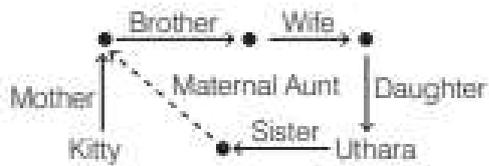


**Example 2:** Kitty said, "Uthara is one of the two daughters of my mother's brother's wife".

How is Kitty's mother related to Uthara's sister?

- (a) Maternal Aunt (b) Mother (c) Grandmother (d) Sister

**Sol. (a)** According to the question,



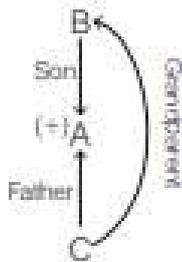
From the above, it is clear that Kitty's mother is the maternal aunt of Uthara's sister.

**2. Relation Puzzle-** In this type, mutual blood relations of more than two persons are mentioned. Candidate has to analyze the information and find the required relation.

**Example 3:** If 'A' is the son of 'B' and is the father of 'C', how is 'B' related to 'C'?

- (a) Father (b) Son (c) Grandparent (d) Grandchild

**Sol. (c)** According to the given information,

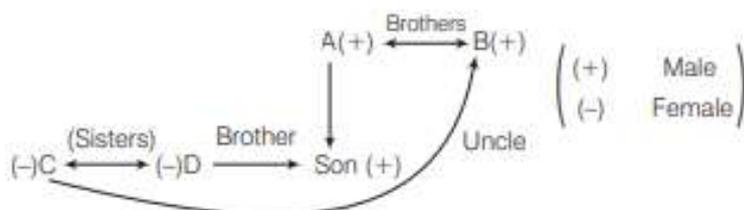


From the above it is clear that, B is the grandparent of C.

**Example 4:** A and B are brothers. C and D are sisters. A's son is D's brother. How is B related to C?

- (a) Father (b) Brother (c) Grandfather (d) Uncle

**Sol. (d)** According to the given information,



Clearly, B is uncle of C.

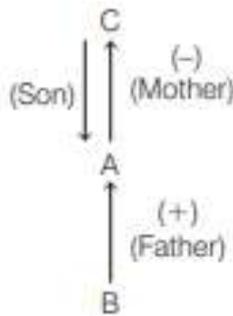
**3. Coded Relations-** In this type, the relationships are represented by certain specific codes or symbols such as + - ÷ × , , , \$, @ etc.

Candidate has to analyze the codes to determine the required relationship.

**Example 5:** If 'P+Q' means 'P is the father of Q', 'P×Q' means 'P is the brother of Q', 'P-Q' means 'P is the mother of Q', then which of the following is definitely true about C-A+B?

- (a) B is the son of A                      (b) A is the son of C  
 (c) B is the father of A                    (d) C is the mother of B

**Sol. (b)** According to the given information,



Clearly, A is the son of C.

**Example 6:** If 'P Q×' means P is mother of Q.

- P + Q' means P is sister of Q.
- P Q÷ ' means P is father of Q.
- P Q- ' means P is brother of Q.

Then, which of the following means J is paternal grandfather of W?

- (a) W T J ÷ ÷    (b) J T W ÷ ×    (c) J T W × ×    (d) None of these

**Sol. (d) From option (a),**

W T W ÷ ⇒ is the father of T

T J T ÷ ⇒ is the father of J

So, W is the grandfather of J.

**From option (b),**

$J T J \div \Rightarrow$  is the father of T

$T W T \times \Rightarrow$  is the mother of W.

So, J is the maternal grandfather of W

**From option (c),**

$J T J \times \Rightarrow$  is the mother of T

$T W T \times \Rightarrow$  is the mother of W

So, J is the maternal grandmother of W.

So, all the given relations are false.

### **Practice Questions**

1. Introducing Reena, Monika said, 'She is the only daughter of my father's only daughter.' How is Monika related to Reena?

- (a) Aunt      (b) Niece      (c) Mother      (d) Cousin

2. 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

3. Pointing to Ketan, Namrata said, 'He is the son of my father's only son'. How is Ketan's mother related to Namrata?

- (a) Daughter      (b) Aunt      (c) Sister      (d) Sister-in-law

4. Pointing to a man on the stage, Rashi said, 'He is the brother of the daughter of the wife of my husband'. How is the man on the stage related to Rashi?

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

5. How is Sameer related to Akbar if Sameer introduced Akbar as his maternal grandmother's only son's son?

- (a) Brother      (b) Son      (c) Maternal Uncle      (d) Cousin

6. 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

7. Malini said, "Rohit is my maternal aunt's mother's only son's son". How is Malini related to Rohit?

- (a) Cousin      (b) Mother      (c) Sister      (d) Daughter

8. Ram said, "Sita is my paternal great grandfather's only son's only daughter-in-law". How is Sita related to Ram?

- (a) Maternal Aunt      (b) Paternal Aunt      (c) Mother      (d) Sister

9. Pointing to a photograph, a person tells his friend, 'She is the granddaughter 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

10. 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

11. Showing a man, a woman said, 'His brother's father is the only son of my grandfather'. How is the woman related to the man?

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

12. Mathew told his friend Shyam, pointing to a photograph, "Her father is the only son of my mother". The photograph is of whom?

- (a) Mathew's niece      (b) Mathew's mother      (c) Mathew's daughter      (d) Mathew's sister

13. Looking at a photograph, a person said, "I have no brother or sister but that man's father is my father's son". At whose photograph was the person looking at?

- (a) His son's      (b) His nephew      (c) His father's      (d) His own

14. Bina is the daughter of Mohan who is the only son-in-law of Meena. Meena has only one child. Kiran is the granddaughter of Meena. How is Kiran Related to Bina?

- (a) Sister      (b) Daughter      (c) Maternal aunt      (d) Mother

15. E is the daughter of P who is the husband of the only daughter-in-law of K. How is E related to K?

- (a) Daughter (b) Granddaughter (c) Grandmother (d) Mother

16. P'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) None of these

17. Q is the brother of R. P is the sister of Q. T is the brother of S. S is the daughter of R. How is P related to T?

- (a) Uncle (b) Aunt (c) Brother (d) Mother

18. M is the son of N. O is the father of N. P is the father of M. How is N related to P?

- (a) Wife (b) Husband (c) Father (d) Mother

19. P's father Q, is B's paternal uncle and A's husband M, is P's only paternal uncle. How is A related to B?

- (a) Cousin (b) Aunt (c) Mother (d) Data inadequate

20. Q is the son of P, X is the daughter of Q, R is the aunty (Bua) of X and L is the son of R, then what is L to P?

- (a) Grandson (b) Grand daughter (c) Daughter (d) Nephew

21. If 'P\$Q' means 'P is father of Q', 'P#Q' means 'P is mother of Q', 'P\*Q' means 'P is sister of Q', then how is D related to N in N#A\$B\*D?

- (a) Nephew (b) Grandson (c) Grand daughter (d) Data inadequate

22. If 'P × Q' means 'P is the daughter of Q', 'P + Q' means 'P is the father of Q', 'P ÷ Q, means 'P is the mother of Q' and 'P - Q' means 'P is the brother of Q', then in the expression A B C E F ÷ + - ×, how is A related to F?

- (a) Mother (b) Aunt (c) Daughter-in-law (d) None of these

23. 'P-Q' means 'P is the mother of Q', 'P × Q' means 'P is the father of Q' and 'P+Q' means 'P is the daughter of Q'. Now, if M N T Z - × + , then which of the following is not true?

- (a) T is N's daughter                      (b) N is wife of Z  
 (c) M is mother-in-law of Z    (d) T is grand daughter of M

24. If, • 'P ÷ Q' means 'P is sister of Q'

- 'P × Q' means 'P is brother of Q'
- 'P - Q' means 'P is mother of Q'
- 'P + Q' means 'P is father of Q'

Then, which of the following means ' M is maternal uncle of T' ?

- (a) M K + T ÷    (b) M K + T ×    (c) M K T × -    (d) M K T ÷ -

25. If • 'P × Q' means 'P is wife of Q'

- 'P ÷ Q' means 'P is father of Q'
- 'P + Q' means 'P is son of Q'
- 'P - Q' means 'P is sister of Q'

Then which of the following represent's S is mother of T?

- (a) S M H T × ÷ -    (b) S M H T × - +    (c) M S H T × ÷ -    (d) M S H + T

### ANSWERS

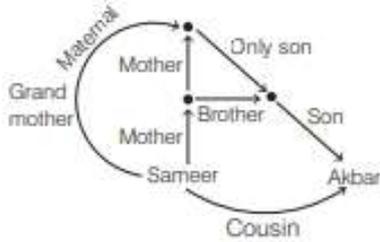
1.	(c)	2.	(a)	3.	(d)	4.	(a)	5.	(d)	6.	(b)	7.	(a)	8.	(c)	9.	(a)	10.	(d)
11.	(b)	12.	(c)	13.	(a)	14.	(a)	15.	(b)	16.	(d)	17.	(b)	18.	(a)	19.	(c)	20.	(a)
21.	(d)	22.	(d)	23.	(b)	24.	(c)	25.	(a)										

### Hints & Solution:

1. (c) Monika's fathers's only daughter-Monika. So, Reena is Monika's daughter, i.e. Monika is Reena's mother.
2. (a) Only daughter of my mother- Myself. So, the woman is man's mother.
3. (d) Namrata's father's only son- Namrata's brother. So, Ketan is the son of Namrata's brother. Thus, Ketan's mother is the wife of Namrata's brother, i.e. Namrata's sister-in -law.

4. (a) Wife of Rashi's husband-Rashi Brother of daughter-Son So, the man on the stage is Rashi's son.

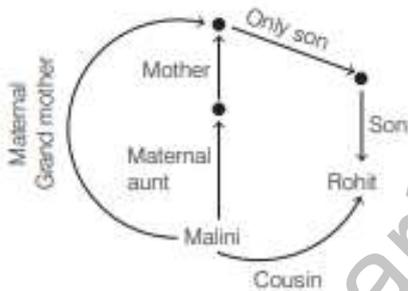
5. (d) According to the question,



Clearly, Akbar is the cousin of Sameer.

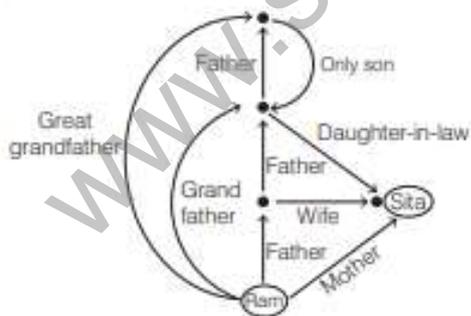
6. (b) Father's wife- Mother, Mother's daughter-Sister, Deepak's sister's younger brother- Deepak's younger brother. So, the boy is Deepak's brother.

7. (a) According to the question,



Clearly, Rohit is the cousin of Malini.

8. (c) According to the question,



Clearly, Sita is the mother of Ram.

9. (a) Brother of father-uncle Uncle's granddaughter-Daughter of uncle's son-Daughter of Cousin-Niece

10. (d) Father of Deepak's daughter's father-Deepak's father. So, the man is the brother of Deepak's father, i.e. Deepak's uncle.

11. (b) Here, only son of woman's grandfather is the father of woman. Also man's brother's father is the father of that woman. Now, it is clear that the woman is the sister of that man.

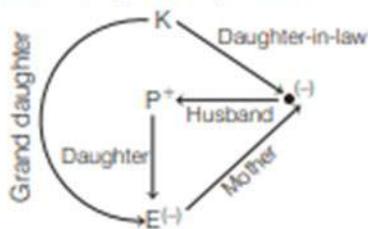
12. (c) Here only son of Mathew's mother means Mathew himself. Now, it is clear that the photograph is of Mathew's daughter.

13. (a) Here, person's father's only son is the person himself and the man in the photograph is the son of that person. So, the person is looking at his son's photograph.

14. (a) According to the question,

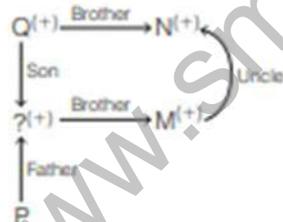


15. (b) According to the question,



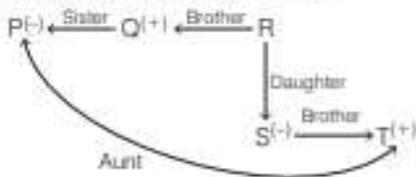
Clearly, E is the granddaughter of K.

16. (d) According to the question,



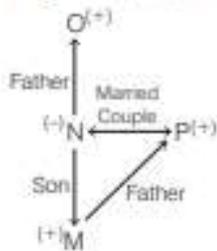
Clearly, N is uncle of M.

17. (b) According to the question,



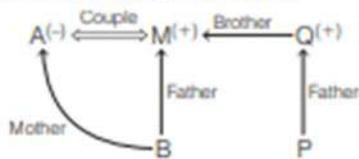
Clearly, P is aunt of T.

18. (a) According to the question,



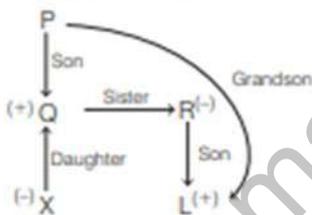
Clearly, N is the wife of P.

19. (c) According to the question,



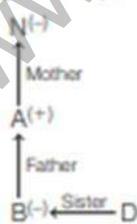
Clearly, A is mother of B

20. (a) According to the question.



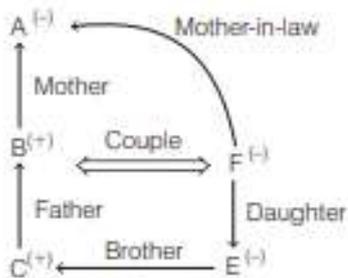
Now, it is clear that L is the grandson of P

21. (d) According to the question,



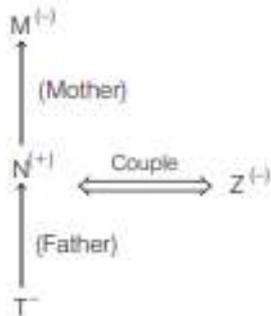
D is either granddaughter or grandson of

22. (d) According to the question,



A is mother-in-law of F.

23. (b) According to the question,



Clearly, N is husband of Z

24. (c) From option

(a)  $M \div K + T = M \xleftarrow{(-) \text{ sister}} K \xleftarrow{(+)} T$

M is the aunt of T

(b)  $M \times K + T = M \xleftarrow{\text{Brother}} K \xleftarrow{\text{Father}} T$

M is the paternal uncle of T

(c)  $M \times K - T = M \xleftarrow{\text{Brother}} K \xleftarrow{\text{Mother}} T$

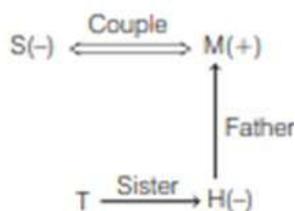
M is the maternal uncle of T. So, option (c) gives the stated relation.

25. (a) From option (a),

$S \times \rightarrow M$  S is wife of M

$M H M \div \rightarrow$  is father of H

$H T H - \rightarrow$  is sister of T



Clearly, S is mother of T.

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