# 5. BLOOD RELATIONS

In these tests, the success of a candidate depends upon the knowledge of the blood relations, some of which are summarized below to help solve these tests.

Mother's or father's son Brother Mother's or father's daughter Sister Mother's or father's brother Uncle Mother's or father's sister Aunt Mother's or father's father Grandfather Mother's or father's mother Grandmother Son's vaife Daughter-in-Law Son-in-Law Daughter's husband Sister-in-Law Husband's or wife's sister Husband's or wife's brother Brother-in-Law Brother's son Nephew Brother' daughter Niece Uncle or aunt's son or daughter Cousin Sister's husband Brother-in-Law Brother's wife Sister-in-Law Grandson's or Grand daughter's daughter Great grand daughter

# TYPE 1: DECIPHERING JUMBLED UP DESCRIPTIONS

In this type of questions, a round-about description is given in the form of certain small relationships and direct relationship between the persons concerned is to be deciphered.

- Ex. 1. 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
- (Hotel Management, 1996)
- Sol. Since the narrator has no brother, his father's son is he himself. So, the man who is talking is the father of the man in the photograph or the man in the photograph is his son.
  - Hence, the answer is (b).
- Ex. 2. Anil introduces Rohit as the son of the only brother of his father's wife. How is Rohit related to Anil?
  - (a) Cousin .
- (b) Son
- (c) Uncle
- (d) Son-in-law
- (e) Brother

- Sol. The relations may be analysed as follows:
  - Father's wife Mother; Mother's brother Uncle; Uncle's son Cousin. So. Rohit is Anil's cousin. Hence, the answer is (a).

Ex. 3	Pointing towards a person in a 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) Cousin (e) None of these (Bank P.O. 1994)
Sol.	The relations may be analysed as follows:
	Sister's brother — Brother; Brother's father — Father; Father's son — Brother.
	So, the person in the photograph is Anjali's brother.
	Hence, the answer is (e).
Ex. 4	Pointing out to a photograph, a man tells his friend, "She is the daughter of the only son of my father's wife." How is the girl in the photograph related to the man?
	(a) Daughter (b) Cousin (c) Mother (d) Sister (e) Niece
Sol.	The relations may be analysed as follows:
	Father's wife — Mother; Mother's only son — Himself.
	So, the girl is man's daughter.
	Hence, the answer is (a).
Ex. 8	5. 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
Sol.	The relations may be analysed as follows:
301.	Father's father — Grandfather; Grandfather's Grand daughter — Sister;
	Sister's husband — Brother-in-law.
	So, Y is X's brother-in-law.
	Hence, the answer is (c).
Ex. 6	5. Pointing out to a lady, Rajan said, "She is the daughter of the woman who
LIA.	is the mother of the husband of my mother." Who is the lady to Rajan?
	(a) Aunt (b) Grand daughter (c) Daughter (d) Sister (e) Sister-in-law
Sol.	The relations may be analysed as follows:
	Mother's husband — Father; Father's mother — Grandmother; Grandmother's daughter — Father's sister; Father's sister — Aunt.
	So, the lady is Rajan's aunt.
	Hence, the answer is (a).
	EXERCISE 5A
1.	Pointing to a man on the stage, Rita said, "He is the brother of the daughter of the wife of my husband." How is the man on the stage related to Rita?
	(a) Son (b) Husband (c) Cousin (d) Nephew (e) Brother-in-law
	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
	Pointing to a man, a woman said, "His mother is the only daughter of my
-	mother." How is the woman related to the man? (Bank P.O. 1998)
	(a) Mother (b) Daughter (c) Sister (d) Grandmother (e) None of these

4.	Pointing to a photograph, a person tells his friend, "She is the grand daughter of the elder brother of my father." How is the girl in the photograph related to his man?
	(a) Niece (b) Sister (c) Aunt (d) Sister-in-law (e) Maternal aunt
5.	Pointing to a photograph, Vipul said, "She is the daughter of my grandfather's only son." How is Vipul related to the girl in the photograph? (B.S.R.B. 1997)
	(a) Father (b) Brother (c) Cousin (d) Data inadequate (e) None of these
6.	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) Uncle (e) Grandson
7.	Looking at a portrait of a man, Harsh said, "His mother is the wife of my father's son. Brothers and sisters I have none." At whose portrait was Harsh looking?  (M.B.A. 1998)
	(a) His son (b) His cousin (c) His uncle (d) His nephew (e) None of these
8.	A man said to a lady, "Your mother's husband's sister is my aunt." How is the lady related to the man?
	(a) Daughter (b) Grand daughter (c) Mother (d) Sister (e) Aunt
₽.	If 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
	(Bank P.O. 1996)
10.	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
	(Railways, 1994)
11.	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
12.	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
13.	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
	(Bank P.O. 1997)
14.	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 (e) Grandmother
15.	Pointing out 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
16.	Rita told Mani, "The girl I met yesterday at the beach was the youngest daughter of the brother-in-law of my friend's mother." How is the girl related to Rita's friend?
	(a) Cousin (b) Daughter (c) Niece (d) Friend (e) Aunt

17.	If Kamal says, "Ravi's mother is the only daughter of my mother", how is Kamal related to Ravi ? (S.B.I.P.O. 1994)
	(a) Grandfather (b) Father (c) Brother
	(d) Cannot be determined (e) None of these
18.	Rahul told 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
19.	When Anuj saw Manish, he recalled, "He is the son of the father of my daughter." Who is Manish?
	(a) Brother-in-law (b) Brother (c) Cousin (d) Uncle (e) Nephew
20.	Pointing to a photograph, a lady tells Pramod, "I am the only daughter of this lady and her son is your maternal uncle." How is the speaker related to Pramod's father?  (Hotel Management, 1995)
	(a) Sister-in-law (b) Wife (c) Either (a) or (b) (d) Neither (a) nor (b)
21.	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) Sister (d) Niece (e) None of these
22.	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
23.	Pointing to a photograph, a woman says, "This man's son's sister is my mother-in-law." How is the woman's husband related to the man in the photograph?
	(a) Grandson (b) Son (c) Son-in-law (d) Nephew (e) None of these
	(M.B.A. 1994)
24.	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
25.	Deepak said to Nitin, "That boy playing with the 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
26.	Pointing to the lady on the platform, Manju said, "She is the sister of the father
	of my mother's son." Who is the lady to Manju?
97	(a) Mother (b) Sister (c) Aunt (d) Niece (e) None of these Arun said, "This girl is the wife of the grandson of my mother." Who is Arun
<b>~</b> · · ·	to the girl?
	(a) Father (b) Grandfather (c) Husband
	(d) Father-in-law (e) None of these
28,	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 ? (B.S.R.B. 1996)
-61	(a) Mother (b) Aunt (c) Sister (d) Daughter (e) Grandmother
29.	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

- 30. A man pointing to a photograph says, "The lady in the photograph is my nephew's maternal grandmother." How is the lady in the photograph related to the man's sister who has no other sister? (Hotel Management, 1997)
  - (a) Cousin
- (b) Sister-in-law
- (c) Mother
- (d) Mother-in-law
- 31. 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 aunt
- 32. Pointing to an old man, Kailash said, "His son is my son's uncle." How is the old man related to Kailash?
  - (a) Brother
- (b) Uncle
- (c) Father
- (d) Grandfather
- (e) None of these

# ANSWERS

- (a): Wife of husband Herself; Brother of daughter Son.
   So, the man is Rita's son.
- 2. (e): Brother of uncle's daughter Uncle's son Cousin.
  So, the man is Seema's cousin.
- (a): Orlly daughter of my mother Myself.
   So, the woman is man's mother.
- (a): Brother of father Uncle; Uncle's grand daughter daughter of uncle's son daughter of cousin — niece.
- (b): My grandfather's only son My father.
   So, the girl is the daughter of Vipul's father i.e., Vipul is the girl's brother.
- 6. (c): Brother of mother Uncle; Uncle's son Cousin.
- 7. (a): Since Harsh has no brother or sister, so he is his father's only son.
  Now, wife of my father's son my wife.
  So, Harsh's wife is the man's mother or the man is Harsh's son.
- Your mother's husband Your father; Your father's sister Your aunt.
   So, lady's aunt is man's aunt and therefore lady is man's sister.
- 9. (e): Only son of Neena's father-in-law Mahipal Neena's husband.
  So, Raman is Neena's husband and Anita and Bindu are his daughters.
  Thus, Bindu is the grand daughter of Mahipal.
- 10. (c): Only son of Amar's mother's father Amar's maternal uncle.
  So, the girl's maternal uncle is Amar's maternal uncle. Thus, the girl's mother is Amar's aunt.
- (a): Daughter of uncle's father Uncle's sister Mother; Mother's son Brother.
- Son of Y's Son Grandson; Brother of Y's grandson Y's grandson.
- 13. (d): Father of Deepak's daughter's father Deepak's father.
  So, the man's brother is Deepak's father or the man is the brother of Deepak's father i.e., Deepak's uncle.
- 14. (c): Only son of her grandfather Her father; man's brother's father man's father. So, man's father is her father i.e., She is the man's sister.
- 15. (b): My father's only son My brother; Grandmother of my brother My grandmother; Daughter-in-law of my grandmother My mother.
  So, the lady is girl's mother.
- 16. (a): Daughter of brother-in-law Niece; Mother's niece Cousin.
  So, the girl is the cousin of Rita's friend.

17. (e): Only daughter of Kamal's mother — Kamal's sister.
So, Ravi's mother is Kamal's sister or Kamal is the brother of Ravi's mother i.e.,
Ravi's maternal uncle.

- (b): Daughter of grandmother Aunt; Aunt's only brother Father.
- 19. (a): Anuj's daughter's mother Anuj's wife; Anuj's wife's father Anuj's father-in-law; Father-in-law's son Anuj's brother-in-law.
  So. Manish is Anuj's brother-in-law.
- 20. (b): Clearly, the speaker's brother is Pramod's maternal uncle. So, the speaker is Pramod's mother or his father's wife.
- 21. (d): My mother's mother My grandmother; My grandmother's only son My maternal uncle.
  So, the woman is man's niece.
- 22. (d): Asha's mother's mother is man's mother i.e., Asha's mother is man's sister or Asha is man's niece.
- 23. (a): Man's son's sister Man's daughter.
  So, the man's daughter is the mother of the woman's husband. Thus, the woman's husband is the grandson of the man in the photograph.
- 24. (d): Only daughter of my father Myself. So, the man is woman's husband.
- 25. (b): Father's wife Mother; Mother's daughter Sister; Sister's younger brother My younger brother. So, the boy is Deepak's brother.
- 26. (c): Manju's mother's son Manju's brother; Manju's brother's father Manju's father; Father's sister Manju's aunt.
- 27. (d): Mother's grandson Son; Son's wife Daughter-in-law.
- 28. (c): Only son of woman's grandfather Woman's father; Man's brother's father Man's father. So, the woman is man's sister.
- 29. (a): Daughter of your father Your sister.
  So, the person's mother is woman's sister or the woman is person's aunt.
- 30. (c): Clearly, the lady is the grandmother of man's sister's son i.e., the mother of the mother of man's sister's son i.e., the mother of man's sister.
  So, the lady is man's mother.
- 31. (d): Brother of my wife My brother-in-law; Son of lady's brother is the brother-in-law of the man. So lady's brother is man's father-in-law i.e., the lady is the sister of man's father-in-law.
- 32. (c): Kailash's son's uncle Kailash's brother. So, the old man's son is Kailash's brother i.e., the old man is Kailash's father.

# TYPE 2: RELATION PUZZLE

In this type, mutual blood relations or other informations of more than two persons are mentioned and information about any two is mentioned.

- Ex. 1. A and B are brothers. C and D are sisters. A's son is D's brother. How is B related to C? (M.B.A. 1998)
  - (a) Father (b) Brother (c) Grandfather (d) Uncle (e) None of these
- Sol. Clearly, B is the brother of A; A's son is D's brother. This means D is the daughter of A. Since C and D are sisters, C is also the daughter of A. So, B is the uncle of C. Hence, the answer is (d).
- Ex. 2. Given that
  - 1. A is the mother of B:
  - C is the son of A;

	<b>3.</b> D is the	e brother of E;			
	4. E is the	e daughter of B.			
	The grand	mother of D is			(S.C.R.A. 1994)
	(a) A	(b) B	(c) C	(d)	D (e) E
Sol.	D is the b son of B.	rother of E and I	E is the daug	hter of B. Thi	s means that D is the
	Also, A is	the mother of B.			
	So, A is th	ne grandmother o	of D.		
		e answer is (a).			
Ex.		are married coup related to B?	le. X and Y	are brothers.	K is the brother of A.
	(a) Brothe	er-in-Law	(b) B:	rother	(c) Son-in-Law
	(d) Cousii	n.	(e) No	one of these	
Sol.					rothers, and X is the e brother-in-law of B.
	Hence, the	e answer is (a).			
Ex.	5. Read the below :	following inform	ation careful	ly and answe	r the questions given
	E are brot	thers. F is the sis aughters of the b	ster of E. C is	the only son	C, D, E and F. A and of A's uncle. B and D
1.	(a) Cousin	(b) Brother	(c) Son	(d) Uncle	(e) None of these
9		nale players are t		(a) Officie	(e) None of these
4.	(a) One	(b) Three	(c) Five	(d) Six	(e) Four
9		emale players are		(a) Six	(e) Four
٥.	(a) Two	(b) Three	(c) Five	(d) One	(e) Four
4	How is D rel		(c) Five	(a) One	(e) rour
7.	(a) Uncle	(b) Sister	(c) Niece	(d) Cousin	(e) None of these
Solv	tion :				· · · · · ·
		ence A's sister. So	. C is also the	son of F's uno	le and is, therefore, F's
	cousin. So, the		,		
	female. C is th		nale. B and D		ne sister of E and hence and hence female. Thus
				are three fema	les. So, the answer is $(b)$
4.	Clearly, D's fat		of C's father a	nd C's father is	A's uncle. So, D's father
		Г.			_

# EXERCISE 5B

A party consists of grandmother, father, mother, four sons and their wives and one son and two daughters to each of the sons. How many females are there is all?
 (a) 14
 (b) 16
 (c) 18
 (d) 24
 (e) None of these

2.	Lakshmi and Meena are Roh is Lakshmi related to Shalin		Meena's step-daughter. How
		other-in-Law	(c) Mother
	,-, -,	one of these	(0)
3.	Daya has a brother Anil. Day In terms of relationship, who	a is the son of Chandra	. Bimal is Chandra's father. (C.B.I. 1994)
	(a) Son (b) Grandson	(c) Brother (c	d) Grandfather
4.	Rahul's mother is the only da related to Rahul?	ughter of Monika's fathe	er. How is Monika's husband (Bank P.O. 1994)
	(a) Uncle (b) Fa	ther	(c) Grandfather
	(d) Brother (e) Da	ıta inadequate	
5.	If (i) M is brother of N; (ii) which of the following states	ments is definitely true	? (B.S.R.B. 1995)
	(a) N is brother of B	(b) N is brother of D	(c) M is brother of B
		(e) None of these	
6.	Deepak is brother of Ravi. I is Deepak related to Rekha		Ravi is son of Rekha. How (C.B.I. 1997)
	(a) Son (b) Broth	ner (c) Nephew	(d) Father
7.	A is B's sister. C is B's moth A related to D?	her. D is C's father. E	is D's mother. Then, how is (Assistant Grade, 1996)
	(a) Grandmother (b) Grand	dfather (c) Daughter	(d) Grand daughter
8.	Given that : 1. A is brothe	r of B.	
	2. C is father	of A.	
	3. D is brother	r of E.	
	4. E is daught	er of B.	
	Then, uncle of D is		(S.C.R.A. 1993)
	(a) A (b) B	(c) C	(d) E
9.	Q is the brother of R; P is the of R. Who are the cousins of		other of S; S is the daughter
	(a) R and P	(b) P and T	(c) Q and T
	(d) S and T	(e) None of these	
10.	E is the son of A. D is the sis D related to E?	on of B. E is married to	o C. C is B's daughter. How
- 4	(a) Brother	(b) Uncle	(c) Father-in-Law
	(d) Brother-in-Law	(e) None of these	
11.	A is father of C and D is so is B related to E?	on of B. E is brother of	A. If C is sister of D, how (Assistant Grade, 1997)
	(a) Daughter (b) Broth	ner-in-Law $(c)$ Hush	oand (d) Sister-in-Law
12.	Q's mother is sister of P an T. How is M related to T?	d daughter of M. S is	daughter of P and sister of (Bank P.O. 1995)
	(a) Grandmother	(b) Father	(c) Grandfather
	(d) Grandfather or Grandmo		

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	T -	_	ad the followin	g information and answer
	questions given b		con D and a da	ughter F F is the meternal
	A is the son of B. C le of D.	, bs sister has a	son D and a da	ughter E. F is the maternal
		to D 2		
13.	How is A related		(a) Unala	(d) Prother
	(a) Cousin		(c) Uncle	(d) Brother
14.	How is E related		( .	(.b. mre.
	(a) Sister	(b) Daughter	(c) Niece	(d) Wife
15.	How many nephev			
	(a) Nil	(b) One	(c) Two	(d) Three
	1.4		d the followin <sub>i</sub>	g information and answer
the	questions given l			(S.S.C. 1993)
	A is the father of (			
	E is the daughter	-		
	B is the brother of			
	G is the spouse of		r of G.	
16.	Who is the grands	mother of D?		
	(a) A	(b) C	(c) F	(d) H
17.	Who is the son of	F?	,	
	(a) B	(b) C	(c) D	(d) E
18.	C is A's father's i	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
19.	P is the son of Q			one another. T is the mother
				atements is correct ?
	(a) T is the broth	er of Q.	(b) S is the c	ousin of P.
	(c) Q and S are si	*	(d) S is the r	naternal uncle of P.
	(e) R is the grand			
20.			er of C. D is the	father of A. Based on these
	three statements,	which of the follo	wing statement	s cannot be definitely true
	(a) B is the broth	er of A.	(b) B is the	son of D.
	(c) A is the brothe		(d) C is the	brother of A.
	(e) A, B and C are			(B.S.R.B. 1997)
21.			. The sister of	X and Z is Y. Which of the
	following stateme			
	(a) B is the moth	-	the sister of Z	(c) Y is the son of A?
	(d) B has one day		s the wife of A	* -
22.				ather of Rajan. Jagat is the
				n. Who is the uncle of Jagat

- (Transmission Executives' 1994)
  23. Neelam, who is Deepak's daughter, says to Deepika, "Your mother Rekha is the younger sister of my father who is the third child of Ramlal." How is Ramlal related to Deepika?
  - (a) Uncle

(a) Rajan

(b) Father

(b) Sachin

(c) Grandfather

(c) Manick

(d) Father-in-Law

(d) None of these

24.	P is the brother of Q and R. following statements cannot be		father. Which of the
	-	· · · · · · · · · · · · · · · · · · ·	(c) P is S's son.
	(d) T is S's husband.		(c) 1 is 5 a soil.
95	P is the brother of D. X is the s		f F F is the daughter
20.	of D. M is the father of X. W		ir. r is the daughter
	(a) X (b) P	(c) F	(d) M
96	K is the brother of N and X.		
20.	Which of the following statem		
		b) Y is the wife of Z. (c	
	(d) K is the father of X.	e) N is the brother of X.	
27.	A woman walking with a boy	meets another woman and	on being asked about
	her relationship with the boy,		
	uncle's maternal uncle are bro	others." How is the boy rela	ted to the woman?
	(a) Nephew (b) Brother-in-	Law (c) Son (d) Grand	dson (e) Husband
	Directions (Questions 28 to	31) : Read the informatic	on given below and
ans	wer the questions that follo	w:	(B.S.R.B. 1998)
	(i) In a family of six persons in	A, B, C, D, E and F, there ar	e two married couples.
	(ii) D is grandmother of A ar	nd mother of B.	
	(iii) C is wife of B and mothe	er of F.	
	(iv) F is the grand daughter	of E.	
28.	What is C to A?		
28.		(b) Grandmother	(c) Mother
28.	(a) Daughter	(o) cranamonici	(c) Mother
	(a) Daughter (d) Cannot be determined	(e) None of these	(c) Mother
	(a) Daughter	(e) None of these there in the family?	
	<ul><li>(a) Daughter</li><li>(d) Cannot be determined</li><li>How many male members are</li></ul>	(e) None of these there in the family? (b) Three	(c) Mother (c) Four
29.	<ul> <li>(a) Daughter</li> <li>(d) Cannot be determined</li> <li>How many male members are</li> <li>(a) Two</li> </ul>	(e) None of these there in the family? (b) Three (e) None of these	
29.	<ul> <li>(a) Daughter</li> <li>(d) Cannot be determined</li> <li>How many male members are</li> <li>(a) Two</li> <li>(d) Cannot be determined</li> <li>Which of the following is true</li> </ul>	(e) None of these there in the family? (b) Three (e) None of these ?	
29.	<ul> <li>(a) Daughter</li> <li>(d) Cannot be determined</li> <li>How many male members are</li> <li>(a) Two</li> <li>(d) Cannot be determined</li> <li>Which of the following is true</li> <li>(a) A is brother of F.</li> </ul>	(e) None of these there in the family? (b) Three (e) None of these ?	(c) Four
29. 30.	<ul> <li>(a) Daughter</li> <li>(d) Cannot be determined</li> <li>How many male members are</li> <li>(a) Two</li> <li>(d) Cannot be determined</li> <li>Which of the following is true</li> <li>(a) A is brother of F.</li> </ul>	(e) None of these there in the family? (b) Three (e) None of these ?  b) A is sister of F. (c) e) None of these.	(c) Four
29. 30.	<ul> <li>(a) Daughter</li> <li>(d) Cannot be determined</li> <li>How many male members are</li> <li>(a) Two</li> <li>(d) Cannot be determined</li> <li>Which of the following is true</li> <li>(a) A is brother of F. (a)</li> <li>(d) B has two daughters. (a)</li> </ul>	(e) None of these there in the family? (b) Three (e) None of these ?  b) A is sister of F. (c) e) None of these.	(c) Four
29. 30.	<ul> <li>(a) Daughter</li> <li>(d) Cannot be determined</li> <li>How many male members are</li> <li>(a) Two</li> <li>(d) Cannot be determined</li> <li>Which of the following is true</li> <li>(a) A is brother of F. (a)</li> <li>(d) B has two daughters. (b)</li> <li>(e) Who among the following is of</li> <li>(a) CD</li> <li>(d) Cannot be determined</li> </ul>	(e) None of these there in the family? (b) Three (e) None of these ? (b) A is sister of F. (c) (c) None of these. (d) DE (e) None of these	(c) Four  D has two grandsons.  (c) EB
29. 30. 31.	<ul> <li>(a) Daughter</li> <li>(d) Cannot be determined</li> <li>How many male members are</li> <li>(a) Two</li> <li>(d) Cannot be determined</li> <li>Which of the following is true</li> <li>(a) A is brother of F. (a)</li> <li>(d) B has two daughters. (b)</li> <li>(d) B has two daughters. (c)</li> <li>(e) CD</li> <li>(f) Cannot be determined</li> <li>Directions (Questions 32 to 3)</li> </ul>	(e) None of these there in the family? (b) Three (e) None of these ? b) A is sister of F. (c) e) None of these. one of the couples? (b) DE (e) None of these (e) None of these (f) Study the following in	(c) Four  D has two grandsons.  (c) EB
29. 30. 31.	(a) Daughter (d) Cannot be determined How many male members are (a) Two (d) Cannot be determined Which of the following is true (a) A is brother of F. (c) (d) B has two daughters. (d) Who among the following is of (a) CD (d) Cannot be determined Directions (Questions 32 to 3) is answer the questions given	(e) None of these there in the family? (b) Three (e) None of these ? b) A is sister of F. (c) e) None of these. one of the couples? (b) DE (e) None of these (e) None of these (f): Study the following in below it:	(c) Four  D has two grandsons.  (c) EB  formation carefully
29. 30. 31.	(a) Daughter (d) Cannot be determined How many male members are (a) Two (d) Cannot be determined Which of the following is true (a) A is brother of F. (a) (b) B has two daughters. (b) Who among the following is of (a) CD (b) Cannot be determined Directions (Questions 32 to 3) I answer the questions given All the six members of a family	(e) None of these there in the family? (b) Three (e) None of these ? b) A is sister of F. (c) e) None of these. one of the couples? (b) DE (e) None of these (e) None of these (f): Study the following in below it: ly A, B, C, D, E and F are	(c) Four  D has two grandsons.  (c) EB  formation carefully  travelling together. B
29. 30. 31.	(a) Daughter (d) Cannot be determined How many male members are (a) Two (d) Cannot be determined Which of the following is true (a) A is brother of F. (c) (d) B has two daughters. (d) Who among the following is of (a) CD (d) Cannot be determined Directions (Questions 32 to 3) I answer the questions given All the six members of a family the son of C but C is not the re-	(e) None of these there in the family? (b) Three (e) None of these ? b) A is sister of F. (c) e) None of these. one of the couples? (b) DE (e) None of these 37): Study the following in below it: ly A, B, C, D, E and F are nother of B. A and C are a	(c) Four  D has two grandsons.  (c) EB  formation carefully travelling together. B married couple. E is
30. 31. and is t	(a) Daughter (d) Cannot be determined How many male members are (a) Two (d) Cannot be determined Which of the following is true (a) A is brother of F. (a) (b) B has two daughters. (b) (c) CD (d) Cannot be determined Directions (Questions 32 to 3) I answer the questions given All the six members of a family the son of C but C is not the re brother of C. D is the daughter	(e) None of these there in the family? (b) Three (e) None of these ? b) A is sister of F. (c) e) None of these. one of the couples? (b) DE (e) None of these (e) None of these (f): Study the following in below it: ly A, B, C, D, E and F are mother of B. A and C are a ser of A. F is the brother of I	(c) Four  D has two grandsons.  (c) EB  formation carefully travelling together. B married couple. E is
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30. 31. and is the 32.	(a) Daughter (d) Cannot be determined How many male members are (a) Two (d) Cannot be determined Which of the following is true (a) A is brother of F. (c) (d) B has two daughters. (d) Who among the following is of (a) CD (d) Cannot be determined Directions (Questions 32 to 3) I answer the questions given All the six members of a family the son of C but C is not the re brother of C. D is the daughted How many male members are (a) 1 (b) 2	(e) None of these there in the family? (b) Three (e) None of these ? b) A is sister of F. (c) e) None of these. one of the couples? (b) DE (e) None of these (e) None of these (f): Study the following in below it: ly A, B, C, D, E and F are mother of B. A and C are a ser of A. F is the brother of I	(c) Four  D has two grandsons.  (c) EB  formation carefully travelling together. B married couple. E is
30. 31. and is the 32.	(a) Daughter (d) Cannot be determined How many male members are (a) Two (d) Cannot be determined Which of the following is true (a) A is brother of F. (a) (b) B has two daughters. (b) (c) CD (d) Cannot be determined Directions (Questions 32 to 3) (a) CD (b) Cannot be determined Directions (Questions 32 to 3) (a) CD (b) Cannot be determined Directions (Questions 32 to 3) (a) CD (b) Cannot be determined Directions (Questions 32 to 3) (c) CD (d) Cannot be determined Directions (Questions 32 to 3) (d) Cannot be determined	(e) None of these there in the family? (b) Three (e) None of these ? b) A is sister of F. (c) e) None of these. one of the couples? (b) DE (e) None of these (e) None of these (f): Study the following in below it: ly A, B, C, D, E and F are nother of B. A and C are a er of A. F is the brother of E there in the family? (c) 3	(c) Four  D has two grandsons.  (c) EB  formation carefully  travelling together. B married couple. E is B.  (d) 4
30. 31. and is the 32.	(a) Daughter (d) Cannot be determined How many male members are (a) Two (d) Cannot be determined Which of the following is true (a) A is brother of F. (c) (d) B has two daughters. (d) Who among the following is of (a) CD (d) Cannot be determined Directions (Questions 32 to 3) I answer the questions given All the six members of a family the son of C but C is not the re brother of C. D is the daughted How many male members are (a) 1 (b) 2 Who is the mother of B? (a) D (b) F	(e) None of these there in the family? (b) Three (e) None of these ? b) A is sister of F. (c) e) None of these. one of the couples? (b) DE (e) None of these 37): Study the following in below it: ly A, B, C, D, E and F are nother of B. A and C are a er of A. F is the brother of E there in the family? (c) 3 (c) E	(c) Four  D has two grandsons.  (c) EB  formation carefully  travelling together. B married couple. E is B.
30. 31. and is the 32.	(a) Daughter (d) Cannot be determined How many male members are (a) Two (d) Cannot be determined Which of the following is true (a) A is brother of F. (a) (b) B has two daughters. (b) (c) CD (d) Cannot be determined Directions (Questions 32 to 3) (a) CD (b) Cannot be determined Directions (Questions 32 to 3) (a) CD (b) Cannot be determined Directions (Questions 32 to 3) (a) CD (b) Cannot be determined Directions (Questions 32 to 3) (c) CD (d) Cannot be determined Directions (Questions 32 to 3) (d) Cannot be determined	(e) None of these there in the family? (b) Three (e) None of these ? b) A is sister of F. (c) e) None of these. one of the couples? (b) DE (e) None of these 37): Study the following in below it: ly A, B, C, D, E and F are nother of B. A and C are a er of A. F is the brother of E there in the family? (c) 3 (c) E	(c) Four  D has two grandsons.  (c) EB  formation carefully  travelling together. B married couple. E is B.  (d) 4

Reasoning

35.	Who is the w	rife of E?			
	(a) A	(b) F	(c) B	(d) Can't be	determined
36.	Which of the	following is a pai	r of females?		
	(a) AE	(b) BD	(c) <b>DF</b>	(d) AD	
37.	How is E rel	ated to D?			
	(a) Father	(b) Brother	(c) Uncle	(d) Can't be	determined
	Directions (	Questions 38 to 4	(2): Read the	information p	given below and
ans	wer the que	tions that follow	v :		(Bank P.O. 1995
	I. A, B, C,	D, E and F are s	ix members of a	family.	
	II. One cou	ple has parents ar	nd their children	in the family.	
		son of C and E is			
		daughter of F wh			
38.		male members in			
	(a) A and C		(b) C and F	(c) A, E	and D
	(d) Cannot b	e determined	(e) None of th	ese	
39.	Which of the	following pairs is	the parents of	the children?	
	(a) BC		(b) CF	(c) BF	
	(d) Cannot b	e determined	(e) None of th	ese	
40.	Which of the	following pairs is	the parents of	the couple?	
	(a) AB	(b) BC	(c) AF	(d) CF	(e) None of these
41.	How many f	emale members ar	e there in the f	amily?	
	(a) Two		(b) Three	(c) Four	r
	(d) Can't be	determined	(e) None of th	ese	
42.		nship do D and E	bear to each ot	her ?	
	(a) Sister an		(b) Mother an		
		ther and Grand da	-		(e) None of these
43.		E, F and G are m			
		n, two of whom, F s an engineer mar			
		to D and G is th			(I.A.S. 1998
	(a) A's son	(b) E's dau		F's father	(d) G's brothe
	,	Questions 44 to 4	_		
an		questions given		tiouting injur	marron carejun,
		here are six memb		E and F. A an	d B are a marrie
cou		he male member.			
Εi	s the sister of	D. B is the daugh	nter-in-law of F,	whose husban	d has died.
44.	How is F re	lated to A?			
	(a) Mother		(b) Sister-in-L	aw	(c) Sister
	(d) Mother-in		(e) None of th	ese	
45.	How is E re	lated to C?			
	(a) Sister	(b) Daughter	(c) Cousin	(d) Aunt	(e) Mother
46.	Who is C to	B ?			
	(a) Brother	-	(b) Brother-in		(c) Nephew
	(d) Son-in-La	aw	(e) None of th	ese	

47.	How many male m	embers are th	nere in	the fami	ily?		
	(a) One	(b) Two	(c) Thr	ree	(d) F	our	(e) Five
48.	How is F related t	о С ?					
	(a) Mother-in-Law	(b) Sister-in-	Law (	) Mother	· (d	() Aunt	(e) Sister
49.	Shobha is the niece	of Ashish. Asi	hish's r	nother is	Priya	. Kamla is	Priya's mother.
	Kamla's husband i				-		
	related to Hari?					(Assista	nt Grade, 1996)
	(a) Daughter	(b) Great gra	ınddau	ghter	(c) G	randniece	
	(d) Great grandsor	i's daughter					
	Directions (Quest	ions 50 to 54)	: Stud	y the foll	lowin	g informo	tion carefully
and	l answer the ques	tions given b	elow i	t:		(	Railways, 1998)
	There are six perso						
	e's husband. D is th			randfath	er of	F. There a	re two fathers,
	e brothers and a m	-	roup.				
50.	Who is the mother						
	(a) A	(b) B	(6	e) D		(d) E	
51.	Who is E's husban						
	(a) B	(b) C	(6	e) A		(d) F	
<b>52</b> .	How many male n	nembers are th	nere in	the grou	ıp ?		
	(a) One	(b) Two	(6	c) Three		(d) Four	
53.	How is F related t	oE?					
	(a) Uncle	(b) Husband	(4	c) Son		(d) Daugh	ter
54.	Which of the follow	ving is a grou	p of br	others?			
	(a) ABF	(b) ABD	(6	c) BFC		(d) BDF	
	Directions (Quest	ions 55 to 60)	: Read	d the foli	lowin,	g informa	tion carefully
	l answer the ques	-					
	A family consists o						
is n	ot mother of Q. P a ghter of P. Z is the	and Kare an	narried	couple.	Y is t	he brother	of R. X is the
	Who is the brother						
υ.	(a) P	(b) Z		e) Y		(d) X	
56.	Who is the father		**	, 1		(a) A	
٠٠.	(a) R	(b) P	6	c) Z		(d) None	of these
57.	How many childre		_	,, 1		(0) 110110	or errore
1	(a) One	(b) Two		c) Three		(d) Four	
58.	How many female	members are					
1	(a) One	(b) Two		c) Three	-	(d) Four	
59.	How is Q related	to X ?					
	(a) Husband	(b) Father	(6	c) Brothe	r	(d) Uncle	
60.	Which is a pair of						
	(a) P and X	(b) P and Z		c) Q and		(d) R and	
	Directions (Quest			dy the i	nforn	nation giv	en below and
ans	wer the questions	that follow	:				

There is a family of six persons A, B, C, D, E and F. They are Lawyer, Doctor, Teacher, Salesman, Engineer and Accountant. There are two married couples in the 232Reasoning

family. D, the Salesman is married to the Lady Teacher. The Doctor is married to the Lawyer. F, the Accountant is the son of B and brother of E. C, the Lawyer is the daughter-in-law of A. E is the unmarried Engineer. A is the grandmother of F.

61.	How is E related to F?			
	(a) Brother	(b) :	Sister	(c) Cousin
	(d) Cannot be determined	(e) 1	None of these	
62.	What is the profession of B	?		
	(a) Teacher	(b)	Doctor	(c) Lawyer
	(d) Cannot be determined	(e) ]	None of these	
63.	What is the profession of A	?		
	(a) Lawyer	(b) '	<b>Feacher</b>	(c) Doctor
	(d) Cannot be determined	(e) ]	None of these	
64.	Which of the following is on	e of the coupl	es?	
	(a) F and D	(b)	D and B	(c) E and A
	(d) A and C	(e) ]	None of these	
65.	How is D related to F?			
	(a) Grandfather	(b)	Father	(c) Uncle
	(d) Brother	(e) ]	None of these	
	Directions (Questions 66 to	70) : Read t	he following	information carefully
anc	l answer the questions bel	ow:		
	A family consists of six men			
	ples. Q is a doctor and the fat			
	grandmother of T and is a se, one housewife and two st			tor, one contractor, one
	Who is the husband of P?	udents in the	ташиу.	
00.	(a) R (b) U	(a) O	(d) S	(a) T
97	Who is the sister of T?	(c) <b>Q</b>	(a) S	(e) T
67.	(a) R	(b) U		(a) T
		4-7 -	of these	(c) T
00	(d) Information insufficient	(e) None	or these	1
95.	What is the profession of P			(-) D(
	(a) Doctor	(b) Nurse		(c) Doctor or Nurse

(e) None of these 69. Which of the following are two married couples?

(d) Housewife

(c) TS, RU (a) US, QT (b) US, QP (d) US, RP

70. Which of the following is definitely a group of male members?

(a) QU (b) QUT (c) QUP (d) UT (e) None of these

## Directions (Questions 71 to 73): Read the following information carefully and answer the questions that follow: (S.B.I.P.O. 1995)

In a village of Bastar district in Madhya Pradesh, only two types of people live who belong to a tribal class. The first type is known as class A, while the other is known as class B. In that village, there is no other type of person except these two. The activities of both types of people are governed by perfectly patterned norms of social behaviour. Each person of the tribe has to obey the norms. They are rigid about this.

(e) None of these

As far as marriage is concerned, the following norms are to be followed

- (A) The people of class A cannot marry any other member of their own class, though they can marry members of class B.
- (B) After being married, each male member ceases to be a member of that class in which he was born but automatically, he becomes the member of the other class to which his wife belongs.
- (C) As far as females are concerned, they remain the members of their own class after being married.
- (D) On his birth, the child automatically becomes the member of his mother's class.
- (E) When any male member becomes widower or divorcee, then he again belongs to the group in which he was born.
- (F) Nobody can marry more than one person according to social laws.
- 71. Any class B female can have
  - (P) Grandfather born in class A
  - (Q) Grandmother born in class A
  - (a) Only (P) can be true
- (b) Only (Q) can be true
- (c) Either (P) or (Q) can be true
- (d) Neither (P) and (Q) can be true
- (e) Both (P) and (Q) can be true
- One boy, who was born in class B (boy and his wife both can have married and unmarried brothers).
  - (a) can have his daughter in class B (b) can have a son-in-law born in class A
  - (c) can have his uncle from any class (d) can have a divorced son in class B
  - (e) can have a daughter-in-law born in class A.
- 73. Which of the following marriages is not permissible according to the social laws?
  - (a) Any girl of class B marries his mother's brother.
  - (b) Any widower marries his wife's sister.
  - (c) Any boy of class B marries his father's sister.
  - (d) Any widower born in class A marries his brother's widow.
  - (e) Any widow marries the former divorced husband of her daughter.

# ANSWERS

- (a): Grandmother is one female, mother is another, wives of four sons are the four females and two daughters of all four sons are eight females.
   So, in all there are 1 + 1 + 4 + 8 = 14 females.
- Shalini is Meena's step-daughter means Shalini is the daughter of the other wife of Rohan. So, Shalini is the daughter of Lakshmi or Lakshmi is the mother of Shalini.
- (b): Anil is the brother of Daya and Daya is the son of Chandra. So, Anil is the son of Chandra. Now, Bimal is the father of Chandra.
  - So, Anil is the grandson of Bimal.
- 4. (b): Clearly, the only daughter of Monika's father is Monika herself. So, Rahul's mother is Monika. Thus, Monika's husband is the father of Rahul.
- 5. (c): M is the brother of N and B is the brother of N.

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- So, M is the brother of B.
- (a): Deepak is the son of Ravi, who is the son of Rekha. Thus, Deepak is the son of Rekha.
- A is the sister of B and B is the daughter of C. So, A is the daughter of C. Also, D is the father of C. So, A is the granddaughter of D.

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8. (a): Clearly, D is the brother of E and E is the daughter of B. So, D is the son of B. Also, A is the brother of B. So, A is the uncle of D.

- 9. (d): T is the brother of S, who is the daughter of R. So, T and S are the children of R. Now, Q is the brother of R. So, T and S are the cousins of Q.
- 10. (d): C is B's daughter and D is B's son. So, D is the brother of C. E is a male married to C. So, E is the husband of C, whose brother is D. So, D is the brother-in-law of E.
- 11. (a): A is father of C and C is sister of D. So, A is father of D. But D is son of B. So, B is the mother of D and wife of A. Also, E is the brother of A. So, B is the sister-in-law of E.
- 12. (a): S is daughter of P and sister of T. So, T is daughter of P. Now, the sister of P is the daughter of M. This means that P is also the daughter of M. Clearly, T is the granddaughter of M. So, M is the Grandfather or Grandmother of T.
- 13. (a): A is the son of B and D is the son of the sister of B. So, A is the cousin of D.
- 14. (c): E is the daughter of C and D is the son of C. So, F, who is the maternal uncle of D, is also the maternal uncle of E. Thus, E is the niece of F.
- 15. (c): Clearly, F is the maternal uncle of D means F is the brother of D's mother i.e., F is the brother of C. C is the sister of B. So, F is the brother of B who is A's mother. Thus, F is the maternal uncle of A. So, A and D are the nephews of F i.e., F has two nephews.
- 16. (c): D is the son of B, B is the brother of C and A is the father of C. This means that B is the father of D and A is the father of B. So, A is the grandfather of D. Now, F is the spouse of A. So, F is the grandmother of D.
- 17. (a): As explained above, B is the son of A and F is the spouse of A. So, B is the son of F.
- 18. (b): C is A's father's nephew means C is the son of A's father's brother i.e., C is the cousin of A. D is also A's cousin. So, D must be real brother or sister of C. But D is not brother of C. So, D must be sister of C.
- 19. (d): Q and R are sisters. So, T is the mother of R means T is the mother of Q and R. S is the son of T means S is the brother of Q. Thus, P is the son of Q means S is the maternal uncle of P.
- 20. (d): A is the brother of B and B is the brother of C. So, C may be the brother or sister of A.
- 21. (c): A is the father of X and Y is the sister of X. So, Y is the daughter of A.
- 22. (a): Jagat is the brother of Priya and Priya is the daughter of Sachin. So, Jagat is the son of Sachin. Now, Rajan is the brother of Sachin. Thus, Rajan is the uncle of Jagat.
- 23. (c): Neelam's father is Deepak. Deepika's mother is Rekha. Deepak is the third child of Ramlal. So, Deepak's younger sister Rekha is the daughter of Ramlal. So, Ramlal is father of Rekha and grandfather of her daughter Deepika.
- 24. (e): P, Q, R are children of same parents. So, S who is R's mother and T, who is P's father will be mother and father of all three. However, it is not mentioned whether Q is male or female. So, (e) cannot be definitely true.
- 25. (b): A is the brother of F who is the daughter of D. So, A is the son of D. P is the brother of D. So, P is the uncle of A.
- 26. (e): K is the brother of N and X. So, Y, who is the mother of N and Z, who is the father of K, will be mother and father of all three. However, it is not mentioned whether N is male or female.
  So, the statement (e) cannot be definitely true.
- 27. (c): Boy's maternal uncle will be brother of boy's mother. Maternal uncle of mother's brother and maternal uncle of lady are brother means lady is sister of mother's brother i.e., lady is the mother of the boy. So, the boy is woman's son.
- 28. (c): C is the wife of B and D is mother of B. So, C is the grandmother of A. So, C is the mother of A.

- 29. (d): Clearly, the sex of A cannot be determined.
- 30. (e): The sex of A is not known. So, neither (a) nor (b) is definitely true. Clearly, D is the grandmother of A and F.
- 31. (b): C is wife of B. So, one couple is BC. Now, D is grandmother of A. B is the son of D and his wife C is the mother of F. So, D is also the grandmother of F. But F is the granddaughter of E. So, E is the grandfather of F and the husband of D. Thus, DE is another couple.

# Questions 32 to 37

B is the son of C but C is not the mother of B means C is the father of B. A is married to C means A is the mother of B. F. is brother of B means F is son of A and C. D is daughter of A means D is daughter of A and C.

- 32. (d): A is the mother and hence female. B is the son and hence male. C is the husband and hence male. D is the daughter and hence female. E is the brother and hence male. F is the son and hence male. So, there are four males.
- 33, (d): Clearly, A is the mother of B.
- 34. (c): A has son B, son F and daughter D i.e. three children.
- 35. (d): Clearly, from the data available, the wife of E cannot be determined.
- 36. (d): Clearly, the females are only the mother A and the daughter D.
- 37. (c): E is the brother of C who is the father of D. So, E is the uncle of D.

## Questions 38 to 42

E is the daughter of A and F is the mother of E. So, A is the father of E and hence the husband of F. Now, D is the daughter of F. So, D and E are the daughters of A and F.

Also, A is the son of C. Now, only B remains. Thus, B and C are the parents of A.

- 38. (d): The sex of B and C cannot be determined.
- 39. (e): Clearly, A and F are the parents of the children D and E.
- 40. (b): Clearly, B and C are the parents of the couple.
- 41. (c): Clearly, the females in the family are: either B or C, F, D and E.
- 42. (d): Clearly, D and E are sisters.
- 43. (a): E is married to A or D. But B is married to D. Thus, E is married to A. Thus, A, B, D, E are the four adults and C, F, G are the three children in the family. B and D have a child G.

A and E have two children. They are C and F.

Now, only F and G are girls. So, C is a boy. Thus, C is A's or E's son.

#### Questions 44 to 48

A is a male and married to B. So, A is the husband and B is the wife. C is the brother of A. D is the son of C. E, who is the sister of D will be the daughter of C. B is the daughter-in-law of F whose husband has died means F is the mother of A.

- 44. (a): Clearly, F is the mother of A.
- 45. (b): Clearly, E is the daughter of C.
- 46. (b): C is the brother of A who is the husband of B. So, C is the brother-in-law of B.
- 47. (c): A is a male. B, the wife, is female. C, the brother, is male. D, the son, is male. E, the sister, is female. F, the mother, is a female. So, there are three males.
- 48. (c): F is the mother of A and C is the brother of A. So, F is the mother of C
- 49. (b): Shobha is the niece of Ashish means Ashish is the uncle of Shobha. Now, Priya is Ashish's mother. So, Priya is the grandmother of Shobha. Hari is Priya's father. So, Shobha is the great granddaughter of Hari.

## Questions 50 to 54

D is father of A and grandfather of F. So, A is father of F. Thus, D and A are the two fathers. C is the sister of F. So, C is the daughter of A. Since there is only one mother, it is evident that E is the wife of A and hence the mother of C and F. So, B is brother of A. There are three brothers. So, F is the brother of C.

- 50. (d): Clearly, E is the mother.
- 51. (c): Clearly, A is E's husband.
- 52. (d): A, the father, is male. B, the brother, is male. C, the sister, is female. D, the grand-father, is male. E, the mother, is female. F, the brother, is male. So, there are four males.
- 53. (c): Clearly, F is the son of A.
- 54. (a): Clearly, B and A are brothers. F is the brother of C. So, three brothers are A, B, F.

## Questions 55 to 66

Q is the son of R but R is not the mother. So, R is the father of Q. P is married to R. So, P is the wife of R and the mother of Q. X is the daughter of P and hence of R and so she is the sister of Q. Y is the brother of R and Z is the brother of P.

- 55. (b): R is the husband of P and Z is the brother of P. So, Z is the brother-in-law of R.
- 56. (a): R is the father of Q.
- 57. (b): Clearly, Q is the son of P and X is the daughter of P. So, P has two children.
- 58. (b): There are two females only mother P and daughter X.
- 59. (c): X is the sister of Q who is a male. So, Q is brother of X.
- 60. (d): Clearly, Y is brother of R who is a male. So, Y and R are a pair of brothers.

# Questions 61 to 65

C is the daughter-in-law of A who is the grandmother of F means C is the mother of F. But F is the son of B. So, B is C's husband. But C, the lawyer, is married to the Doctor. So, B is the Doctor. F, the Accountant, will be the son of B and C. E is the unmarried Engineer. So, the other married couple can be that of grandmother of F i.e. A and D. But D, the Salesman, is married to the Lady Teacher. So, D, the Salesman, is the grandfather of F, father of B and the husband of A, the Lady Teacher.

- (d): Clearly, from the given data, the relation between E and F cannot be determined.
- 62. (b): Clearly, B is the Doctor.
- 63. (b): A is the Lady Teacher.
- 64. (e): The two couples are C and B; and D and A which is none among the choices.
- 65. (a): D is the grandfather of F.

## Questions 66 to 70

Q, the Doctor, is the father of T. S, the Housewife, is the grandmother of T and hence the mother of Q. Since there are only two married couples one being that of Q, the grandfather of R i.e. U must be married to S. Thus, R and T will be both children of Q and these must be the students. So, P, who remains, shall be the wife of Q and she alone can be the nurse. Thus, U must be the contractor.

- 66. (c): The husband of P will be Q.
- 67. (a): Clearly, R and T are children of same parents. So, R will be the sister of T.
- 68. (b): P is the nurse.
- 69. (b): The two married couples are Q, P and U, S.
- 70. (a): Clearly, for definite the males are Q, the father and U, the grandfather.
- 71. (b): The mother of class B female belongs to class B. So, her father was born in class A. Thus, her father's mother belonged to class A, and father's father was born in class B. So, the Grandfather belongs to class B and Grandmother belongs to class A.

- 72. (c): The boy born in class B will marry a girl of class A. So, the daughter will belong to class A. Thus, (a) is false.
  - Since the boy's daughter will belong to class A, she would marry a boy of class B and so the son-in-law would be from class B. So, (b) is false.
  - The boy, born in class B, will have mother born in class B and father born in class A. So, his uncle (i.e. mother's brother or father's brother) can be from class A or B. So, (c) is true.
- 73. (a): A girl of class B will have mother born in class B and so the mother's brother will also belong to class B. Since people of any class cannot marry the members of their own class, so the condition in (a) is not permissible.

# TYPE 3 : CODED RELATIONS

In such questions, the relationships are represented by certain codes or symbols such as +, -, ×, ÷, \*, □ etc. Then relationships between certain persons, given in the form of these codes, are to be analysed.

- **Ex. 1.** If A + B means A is the sister of B; A B means A is the brother of B; A  $\times$  B means A is the daughter of B, which of the following shows the relation that E is the maternal uncle of D?
  - (a) D + F × E

(b) D – F × E

(c)  $D \times F + E$ 

(d)  $D \times F - E$ 

- (e) None of these.
- Clearly, E is the maternal uncle of D means D is the daughter of the sister Sol. (say F) of E i.e.  $D \times F + E$ .

Hence, the answer is (c).

Ex. 2. Read the following information carefully and answer the questions that follow:

A + B means A is the son of B: A - B means A is the wife of B:  $A \times B$  means A is the brother of B; A + B means A is the mother of B and A = B means A is the sister of B.

- What does P + R Q mean ?
  - (a) Q is the father of P.
  - (c) Q is the uncle of P.
- 2. What does P × R ÷ Q mean ?
  - (a) P is the brother of R.
  - (c) P is the uncle of Q.
- 3. What does P = R + Q mean?
  - (a) P is the aunt of Q.
- i (c) P is the niece of Q.
- 4. What does P = R + Q mean?
  - (a) P'is the aunt of Q.
  - (c) Q is the niece of P.

- (b) Q is the son of P.
- (d) Q is the brother of P.
- (b) P is the father of Q
- (d) P is the nephew of Q.
- (b) P is the daughter of Q.
- (d) P is the sister of Q.
- (b) P is the sister of Q.
- (d) Q is the daughter of P.

## Solution:

- Clearly, P + R Q means F is the son of R who is the wife of Q i.e. Q is the father of P. Hence, the answer is (a).
- P × R + Q means P is the brother of R who is the mother of Q i.e. P is the uncle of Q. So, the answer is (c).

P = R + Q means P is the sister of R who is the son of Q i.e. P is the daughter of Q.
 So, the answer is (b).

 P = R + Q means P is the sister of R who is the mother of Q i.e. P is the aunt of Q. So, the answer is (a).

	So, the answer is (a).		
		EXERCISE 5C	
1.	P + Q means $P$ is the brother means $P$ is the sister of $Q$ . Very of $R$ ?		
	(a) $M + K + R$ (d) $M + K \times R$	<ul><li>(b) M - R + K</li><li>(e) None of these</li></ul>	(c) $M + K - R$
2.	If $A + B$ means A is the back $A \times B$ means A is the sister of $P$ ?		
	(a) $N \times P + M$	(b) $\mathbf{M} + \mathbf{S} \div \mathbf{R} \div \mathbf{P}$	(c) $\mathbf{M} + \mathbf{N} \times \mathbf{P}$
	(d) $\mathbf{M} + \mathbf{K} \div \mathbf{T} \times \mathbf{P}$	(e) None of these.	
	Directions (Questions 3 to		nformation and answer
the	questions given below it		
	A + B means A is the daugh	iter of B; $A \times B$ means A i	s the son of B and $A - B$
	ans A is the wife of B.	Marriag is tone 9	
э.	If $P \times Q - S$ , which of the form		(-) D := 11
	(a) S is wife of Q	(b) S is father of P (e) None of these	(c) P is daughter of Q
	(d) Q is father of P		
4.	If $T - S \times B - M$ , which of		(a) This swife of S
	<ul><li>(a) B is mother of S</li><li>(d) S is daughter of B</li></ul>	(b) M is husband of B (e) S is son of B	(c) T is wife of S
5.	If $\mathbf{Z} \times \mathbf{T} - \mathbf{S} \times \mathbf{U} + \mathbf{P}$ , what is	U to Z.	
	(a) Mother (d) Can't be determined	(b) Grandmother (e) None of these.	(c) Father
6.	$P \times Q$ means P is the sister P is the mother of Q. Which		
	(a) $\mathbf{T} \times \mathbf{M} + \mathbf{S}$	(b) $S + T \times M$	-
	(d) $S \times M + R - T$	(e) None of these	(B.S.R.B. 1997)
<b>7.</b>	If A + B means A is the someans A is the sister of B, the maternal uncle of P?		
	(a) $P + B - R \times Q$	(b) $P - B + R \times Q$	(c) $P + B \times R - Q$
	$(d) P \times B - R \times Q$ $(d) P \times B - R + Q$	(e) None of these	(c) I + D × II - Q

8. If A + B means A is the mother of B; A + B means A is the brother of B;  $A \times B$  means A is the son of B and A - B means A is the daughter of B, which of the following means C is the niece of D?

(a) D - C (b)  $D \times P - C$  (c)  $C - P \div D$  (d)  $P + D \div C$  (e)  $D - P \div C$ If  $X \cap Y$  means X is the wife of  $Y : X \star Y$  means X is the son of Y and  $Y \cap Y$ 

9. If X o Y means X is the wife of Y; X \* Y means X is the son of Y and  $X \square Y$  means X is the sister of Y, which of the following would mean that A is the daughter of B?

	(a) A * C □ D o B	(b) A o C * D L B	(c) A 🗆 C (	D + B
	(d) A \( \text{C} \cdot \text{D} \cdot \text{B}	(e) None of these		
	Directions (Questions 10 t wer the questions that fol		information given	below and
	•		omn A in the buckened	
	A + B means A is the daught	ter of B; A - B me	ans A is the nusoana	of B; A × B
	ns A is the brother of B.	11i i- t 0	,	
10.	If $P + Q - R$ , which of the fo			
	(a) R is the mother of P			
	(c) R is the aunt of P		nother-in-law of P	
11.	If $P \times Q + R$ , which of the fo			
	(a) P is the brother of R			
	(c) P is the son of R		father of R	
12.	If $P + Q \times R$ , which of the fo	ollowing is true?		
	(a) P is the niece of R	(b) P is the d	aughter of R	
	(c) P is the cousin of R	(d) P is the d	aughter-in-law of R	
13.	If (A) $P + Q$ means $P$ is the	brother of $Q$ ;		
	(B) $P \times Q$ means $P$ is the	father of $Q$ ;		
	(C) P – Q means P is the	sister of $Q$ ,		
	which of the following repre	esents S is the nie	ce of T?	
	(a) $T \times M + S - K$	(b) $K - S \times M + T$	(c) $T + M \times$	S – K
	(d) $T \times S + M - K$	(e) None of these	(Ban	k P.O. 1995)
14.	To find out the answer to t	he above question	, which of the staten	ents can be
	dispensed with?			
	(a) A only (b) B only	(c) C only (d) B	or C only (e) All a	re necessary
15.	If P + Q means P is the hu			
	$P \times Q$ means P is the son of	f Q, which of the f		
	of B?			k P.O. 1996)
	(a) C × B + A	(b) $B + C \times A$	(c) $\mathbf{D} \times \mathbf{B} +$	C + A
	(d) $A \div D \times B$	(e) None of these		7 1 7 - 7
16.	X - Z means X is the mother	* *		
	means X is the daughter of Z is not true?	2. Now, II M - N ×		.S.R.B. 1998)
	(a) T is N's daughter (b)	N is wife of O		
	(d) Q is wife of N (e)			an or q
	Directions (Questions 17 t			n carefulls
and	l answer the questions giv		outouring injoi muisi	m carefully
	A + B means A is the father		A is the wife of B:	A × B means
A	is the brother of B; A + B me			
	If $P \div R + S + Q$ , which of the	_		
	(a) P is the daughter of Q		the aunt of P	
	(c) P is the aunt of Q		the mother of Q	
18.	If $P - R + Q$ , which of the fe	ollowing statement	s is true ?	
7	(a) P is the mother of Q		the daughter of P	
	(c) P is the aunt of Q		s the sister of Q	
	-		-	

19. If P × R + Q, which of the following statements is true? (b) P is the father of Q (a) P is the uncle of Q (c) P is the brother of Q (d) P is the son of Q 20. If  $P \times R - Q$ , which of the following is true? (a) P is the brother-in-law of Q (b) P is the brother of Q (d) P is the father of Q (c) P is the uncle of Q 21. If P+R+Q, which of the following is true? (a) P is the brother Q (b) P is the son of Q (d) P is the father of Q (c) P is the husband of Q 22. If P ÷ R + Q, which of the following is true? (b) P is the brother of Q (a) P is the father of Q (c) P is the mother of Q (d) P is the sister of Q 23. If P × R + Q, which of the following is true? (a) P is the uncle of Q (b) P is the father of Q (c) P is the brother-in-law of Q (d) P is the grandfather of Q 24. If P - R × Q, which of the following is true? (b) Q is the husband of P (a) P is the sister of Q

(c) P is the sister-in-law of Q

# ANSWERS

(d) Q is the son of P

- (c): M is the maternal uncle of R means M is the brother of the mother (say K) of R i.e. M + K - R.
- (d): M is the uncle of P means M is the brother of the father (say K) of the sister (say T) of P i.e. M + K + T × P.
- 3. (b): P × Q S means P is the son of Q who is the wife of S i.e. P is the son of S or S is the father of P.
- 4. (d): T-S×B-M means T is the wife of S who is the son of B who is the wife of M i.e. T is the wife of the son of M (father) i.e. T is the daughter-in-law of M. But as this is not given in the choice, so the fact in (d) derived from S×B is true.
- 5. (b): Z x T S x U means Z is the son of T who is the wife of S who is the son of U i.e. Z is the son of S who is the son of U i.e. Z is the grandson of U or U is the grandmother or grandfather of Z. From the choice, (b) is true.
- 6. (c): S is the aunt of T means S is the sister of the father (say M) of T i.e. S x M + T.
- 7. (a): Q is the maternal uncle of P means P is the son of the sister of Q i.e. P is the son of the husband (say B) of the sister (say R) of Q i.e. (P + B R × Q).
- 8. (c): C is the niece of D means C is the daughter of the brother (say P) of D i.e. C P + D.
- A is the daughter of B means A is the sister of the son (say C) of the wife (say-D) of B i.e. A □ C \* D o B.
- 10. (a): P + Q R means P is the daughter of Q who is the husband of R i.e. R is P's mother.
- 11. (c): P × Q + R means P is the brother of Q who is the daughter of R i.e. P is the son of R.
- 12. (a): P + Q × R means P is the daughter of Q who is the brother of R i.e. P is the niece of R.
- 13. (c): S is the niece of T means T is the brother of the father (say M) of S i.e. T + M × S.
- 14. (c): Clearly, statement (c) can be dispensed with while answering the above question.
- 15. (d): A is the daughter of B means A is the sister of the son (say D) of B i.e. A + D × B.

16. (d): M - N × T + Q means M is the mother of N who is the father of T who is the daughter of Q i.e. M is the grandmother of the daughter of Q i.e. M is the mother of Q. Since this is not given in the choices, so the fact in (d) derived from N × T + Q is true.

- 17. (c): P ÷ R + S + Q means P is the daughter of R who is the father of S who is the father of Q i.e. P is the sister of the father (S) of Q i.e. P is the aunt of Q.
- 18. (a): P-R+Q means P is the wife of R who is the father of Q i.e. P is the mother of Q.
- 19. (d): P × R + Q means P is the brother of R who is the daughter of Q i.e. P is the son of Q.
- 20. (a): P × R Q means P is the brother of R who is the wife of Q i.e. P is the brother-in-law of Q.
- 21. (c): P+R+Q means P is the father of R who is the daughter of Q i.e. P is the father of R and Q is the mother of R i.e. P is the husband of Q.
- 22. (d): P + R + Q means P is the daughter of R who is the father of Q i.e. P is the sister of Q.
- 23. (a): P × R + Q means P is the brother of R who is the father of Q i.e. P is the uncle of Q.
- 24. (c): P-R × Q means P is the wife of R who is the brother of Q i.e. P is the sister-in-law of Q.