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**VIRTUAL COACHING CLASSES  
ORGANISED BY BOS (ACADEMIC), ICAI**

**FOUNDATION LEVEL  
PAPER 3: BUSINESS MATHEMATICS, LOGICAL  
REASONING & STATISTICS**

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# Discussion flow

- Chap 12
- Blood relations
- Problems & solution – Ex 12 A

# LEARNING OBJECTIVES

- Blood relations of a group of persons are given in jumbled form.
- In these tests, the questions which are asked in this section depend upon Relation.

## ■ DEFINITION

■ A person who is related to another by birth rather than by marriage

## ■ Prerequisites:

■ To remember easily the relations may be divided into two sides as given :

# Relations of Maternal side:

- Mother's father ® Maternal grandfather
- Mother's mother ® Maternal grandmother
- Mother's brother ® Maternal uncle
- Mother's sister ® Aunt
- Children of maternal uncle ® Cousin
- Wife of maternal uncle ® Maternal aunty

# Relations of Paternal side:

- Father's father ® Grandfather
- Father's mother ® Grandmother
- Father's brother ® Uncle
- Father's sister ® Aunt
- Children of uncle ® Cousin
- Wife of uncle ® Aunt
- Children of aunt ® Cousin
- Husband of aunt ® Uncle

# Relations

- The efficiency in doing the problems of blood relations depends upon the knowledge of the blood relations.
- My mother's or father's son is my Brother.
- My mother's or father's daughter is my Sister.
- My mother's or father's father is my Grandfather.
- My mother's or father's sister is my Aunt.

- My mother's or father's brother is my Uncle.
- My son's wife is my Daughter-in-law.
- My daughter's husband is my Son-in-law.
- My brother's son is my Nephew.
- My brother's daughter is my Niece.
- My sister's husband is my Brother-in-law.
- My brother's wife is my Sister-in-law.
- My husband's wife's sister is my Sister-in-law.
- My husband's or wife's brother is my Brother-in-law.



- My uncle's or aunt's son or daughter is my Cousin.
- My wife's father or husband's father is my Father-in-law.
- My wife's mother or husband's mother is my Mother-in-law.
- My father's wife is my Mother.
- My mother's husband is my Father.
- My son's or daughter's son is my Grandson.
- My son's or daughter's daughter is my Grand-daughter.

## Different types of questions with explanation:

- 1. A is B's daughter, B is C's mother. D is C's brother. How is D related to A?
  - (a) *Father*
  - (b) *Grandfather*
  - (c) *Brother*
  - (d) *Son*
- **Explanation:**
- A is daughter B. B is mother of C
- Therefore, D is Son of B.
- D is brother of A

- 2. P is Q's brother. R is Q's mother. S is R's father. T is S's mother. How is P related to T?
  - (a) *Grand-daughter*
  - (b) *Great grandson*
  - (c) *Grandson*
  - (d) *Grandmother*
- **Explanation:** P is brother of Q . Therefore, P is a male.
- R is mother of P and Q and R is daughter of S.
- S is Son of T.
- S is grandfather of P.

- 3. A is B's brother. C is D's father. E is B's mother. A and D are brothers. How is E related to C?
  - (a) *Sister*
  - (b) *Sister-in-law*
  - (c) *Niece*
  - (d) *Wife*

- **Explanation:** A is brother of B . Therefore, A is male.

- C is father of D. Therefore, C is male.

- E is mother of B. Therefore, E is Female. A and D are brothers.

- Therefore, D is male.

- **Deductions:**

- A and D are brothers of D

- C is the father of A, B and D

- C is the mother of A, B and D

- E is wife of C

- 4. A is the sister of B. B is the brother of C.
- C is the son of D. How is D related to A?
  - (a) *Mother*
  - (b) *Daughter*
  - (c) *Son*
  - (d) *Uncle*
- **Explanation:**
- (1) B is brother of C C is son of D.
- A is the sister of B and C.
- According to the options given, we are left with no choice.
- But selection option (a) is correct.

- 5. B is the brother of A. whose only sister is mother of C. D is maternal grandmother of C. How is A related to D?
  - (a) *Daughter-in-law*
  - (b) *Daughter*
  - (c) *Aunt*
  - (d) *Nephew*
- **Explanation:** Although gender of A is not mentioned clearly in the question.
- On the basis of information given is A is daughter of B.

- 6. A and B are sisters. R and S are brothers. A's daughter is R's sister. What is B's relation to S?
  - (a) *Mother*
  - (b) *Grandmother*
  - (c) *Sister*
  - (d) *Aunt*
- **Explanation:** A's daughter R and S. B is sister of A. B is aunt of S.

- 7. E is the sister of B. A is the father of C. B is the son of C. How is A related to E?
  - (a) *Grandfather*
  - (b) *Grand-daughter*
  - (c) *Father*
  - (d) *Great-grandfather*
- **Explanation:** is the Son of C and Grandson C and Grandson A. E is sister of B.
- Therefore, A is Grandfather of E.



- 8. Given that:
- A is the mother of B.
- C is the son of A.
- D is the brother of E.
- E is the daughter of B.
- Who is grandmother of D?
  - (a) A
  - (b) B
  - (c) C
  - (d) D
- **Explanation:** E is the daughter of B and D is brother of E. Therefore B is son A and A is mother of B.
- Thus A, is Grandmother of D.

- 10. A is D' brother. D is B's father. B and C are sisters. How is A related to C?
  - (a) Son
  - (b) Grandson
  - (c) Father
  - (d) Uncle
- **Explanation:** B and C daughters of D . A is brother of D .
- Therefore A is uncle of C.
- A is B's sister. C is B's mother. D is C's father. E is D's mother, then how A is related to D?
  - (a) Grandfather
  - (b) Daughter
  - (c) Grandmother
  - (d) Granddaughter
- **Explanation:** D is Father of C and B is mother of C. Thus, A is grandfather of D

- 11. A is father of C and D is son of B. E is brother of A. If C is sister of D how is B related to E?
  - (a) *Sister-in-law*
  - (b) *Sister*
  - (c) *Brother*
  - (d) *Brother-in-law*
- **Explanation:** C and D Children of A and B. B is mother of C and D.
- Therefore, B is Sister-in-law of E.
- C is wife of B. E is the son of C A is the brother of B and father of D. What is the relationship of E to D?
  - (a) *Mother*
  - (b) *Sister*
  - (c) *Brother*
  - (d) *Cousin*
- **Explanation:** E is B and C.
- A is uncle of E and Father of D. Therefore E is cousin of D.

- 15. X and Y are brothers. R is the father of Y. S is the brother of T and maternal uncle of X. What is T to R?
  - (a) *Mother*
  - (b) *Wife*
  - (c) *Sister*
  - (d) *Brother*
- **Explanation:** R is the Father of X and Y. S is the maternal uncle of X and Y. Considering the option (b), T is wife of R.

# Ex 12 A : Review questions

- 1 A is B's brother. C is A's mother. D is C's father, E is B's son. How is D related to A?
- (a) Son
- (b) Grandson
- (c) **Grandfather**
- (d) Great Grandfather

- 2. A is B's brother. C is A's father. D is C's sister and E is D's mother. How is B related to E?
  - (a) **Grand-daughter**
  - (b) Great grand daughter
- (c) Grandaunt
- (d) Daughter
- 3. A is B's Sister. C is B's Mother. D is C's Father. E is D's Mother. Then how is A related to D?
  - (a) Grandmother
  - (b) Grandfather
  - (c) Daughter
  - (d) **Grand-daughter**

- 6. P and Q are brothers. R and S are sister. P's son is S's brother. How is Q related to R?
  - (a) *Uncle*
  - (b) *Brother*
  - (c) *Father*
  - (d) *Grandfather*

- 7. X is the husband of Y. W is the daughter of X. Z is husband of W. N is the daughter of Z. What is the relationship of N to Y?
  - (a) *Cousin*
  - (b) *Niece*
  - (c) *Daughter*
  - (d) ***Grand-daughter***
  
- 8. A reads a book and finds the name of the author familiar. The author 'B' is the paternal uncle of C. C is the daughter of A. How is B related to A?
  - (a) ***Brother***
  - (b) *Sister*
  - (c) *Father*
  - (d) *Uncle*



- 9. A's mother is sister of B and she has a daughter C who is 21 years old. How is B related to C?
  - (a) *Uncle*
  - (b) **Maternal Uncle**
  - (c) *Niece*
  - (d) *Daughter*
  
- 10. A is B's brother. C is A's mother. D is C's father. F is A's son. How is F related to D?
  - (a) *Son*
  - (b) *Grandson*
  - (c) **Grand-grandson**
  - (d) *Grand-daughter*

- 11. A is B's brother. C is A's mother. D is C's father. E is B's son. How is B related to D?
  - (a) Son
  - (b) **Grand-daughter**
  - (c) Grandfather
  - (d) Great grandfather
  
- 12. A is B's brother. C is A's mother. D is C's father. F a is A's son. How is B related to F's child?
  - (a) Aunt
  - (b) Cousin
  - (c) Nephew
  - (d) **Grandfather**



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**THANK YOU**