

**GS FOUNDATION**  
**BATCH FOR CSE 2023**  
**Ace CSAT 2023-Worksheet 17**  
**Blood relations: Class Test – 1**

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1. 1 A3P means A is the mother of P

A4P means A is the brother of P

A9P means A is the husband of P

A5P means A is the daughter of P

Which of the following means that K is the mother-in-law of M?

A. M9N3K4J

B. M9N5K3J

C. K5J9M3N

D. K3J9N4M

2. A is the brother of B. B is the brother of C. D is the father of A. Based on these three statements, which of the following statements cannot be definitely true?

A. B is son of D

B. A is brother of C

C. C is brother of A

D. B is brother of A

3. A family has six members – P, Q, R, S, T and U. Q is brother-in-law of R's mother. R is father of U. S is father of P and U is grandson of S. There are two females in family.

Who is mother of R?

A. Q

B. T

C. P

D. Cannot be determined

4. Which of the following options represent females of the family?

A. Q and R

B. P and T

C. R and S

D. Cannot be determined

5. Members of the family belong to how many generations?

A. 2

B. 3

C. 4

D. 2 or 3

6. P, Q, R, S, T, U and V are seven members of a family belonging to three generations. There are two married couples – one each of first and second generation. R is a granddaughter. T is father of Q. S is granddaughter of U. P has a daughter.

How many females are there in the family?

- A. 3
- B. 4
- C. 5
- D. None of the above

7. Which of the following is a married couple?

- A. QR
- B. TU
- C. QS
- D. PQ

8.  $A + B$  means A is daughter of B

$A - B$  means A is husband of B

$A * B$  means A is brother of B

$P * Q - R$  means?

- A. P is son-in-law of R
- B. P is brother of R
- C. R is wife of P
- D. P is husband of Q

9.  $H + I * J + K * L + M * N$  then what is the generation of H assuming oldest generation among them as first?

- A. 1<sup>st</sup>
- B. 2<sup>nd</sup>
- C. 3<sup>rd</sup>
- D. 4<sup>th</sup>

10. Which of the options below do not make sense?

- A.  $A + B + C$
- B.  $A - B + C$
- C.  $A + B - C$
- D.  $A * B - C$

11.  $A * B * C * D$  – which option is NOT necessarily true?

- A. B is brother of A
- B. C is brother of A
- C. D is brother of C
- D. A is brother of B

12. 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

13. A, B, C, D, E and F are members of a family. A is son of B and E. C and D are married couple and have two children. F is a female and not a sister of B. C is grandmother of A.

What is relationship between D and B?

- A. Mother-son
- B. Father-son
- C. Father-in-law
- D. Mother-in-law

14. How many persons of the above family are females?

- A. 1
- B. 2
- C. 3
- D. Cannot be determined

15. Who amongst the following is youngest family member?

- A. A
- B. D
- C. F
- D. Cannot be determined

16. If D is the brother of B, how B is related to C? To answer this question which of the statements is/are necessary?

- 1. The son of D is the grandson of C.
- 2. B is the sister of D.

- A. 1 only
- B. 2 only
- C. 1 and 2 both
- D. Neither 1 nor 2

17. A and B are children of D. Who is the father of A?

To answer this question which of the statements (1) and (2) is necessary?

- 1. C is the brother of A and the son of E.
- 2. F is the mother B.

- A. Only (1)
- B. Only (2)

- C. Either (1) or (2)
- D. (1) and (2) both

18. Q is the brother of R; P is the sister of Q; T is the brother of S; S is the daughter of R. Who are the cousins of Q?

- A. R, P
- B. S, T
- C. Q, T
- D. P, T

19. A, B, C, D, E, F are family of six. Three are males and three are females. There are two married couples and two persons are unmarried. E is mother-in-law of A, who is wife of C. D is father of F. B is sister of F.

How is F related to E?

- A. Brother
- B. Son
- C. Father
- D. Daughter

20. Which is one of the married couples?

- A. B and D
- B. B and F
- C. E and F
- D. D and E