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Directions(1-3): Study the following information carefully and answer the questions given below

If ‘A * B’ means A is mother of B
If ‘A + B’ means A is brother of B
If ‘A – B’ means B is wife of A
If ‘A ^ B’ means A is son of B
If ‘A % B’ means B is daughter of A
If ‘A $ B’ means A is husband of B
Question 1: What should come in the place of the question marks (?), to establish that P is maternal grandfather of S in the following expression?

\[ P \space $ \space H \space ? \space K \space * \space S \space ? \space N + M \]

A) -, $
B) +, -
C) +, %
D) %, ^
E) +, *

Question 2: Which of the given expression indicates that H is grandfather of P?

A) P $K^Q^H+S
B) L%C*A^B+H
C) P^K+N^H-M
D) T-Q*P+H%L
E) None of these

Question 3: Which of the following option is true if the expression K*P-S*T+C-A?

A) K is grandfather of A
B) K is father in law of A
C) K is grandfather of C
D) K is grandmother of C
E) K is mother in law of A

Direction (4-6): Study the following information carefully and answer the questions given below
P has three children- S, S1 and S2. S2 married to M, the eldest daughter of Mr. and Mrs. G. The G’s have two more children, R and R1, both older than V. N and K are the sons of S2 and M. Q is the daughter of A. The G’s married their youngest daughter V to the eldest son of Mr. and Mrs. S, and they have two children named A and B.

**Question 4: How is Mrs. G related to S2?**
- (A) Aunt
- (B) Mother-in-law
- (C) Mother
- (D) Sister-in-law
- (E) None of these

**Question 5: How is N related to the father of M?**
- (A) Grandson
- (B) Son
- (C) Cousin
- (D) Son-in-law
- (E) None of these

**Question 6: How many child A’s has?**
- (A) Two
- (B) One
- (C) Three
- (D) None
- (E) Four
Direction (7-11): Study the following information carefully and answer the questions given below
A @ B means A is father of B
A % B means A is husband of B
A $ B means A is sister of B
A £ B means A is mother B
A ¥ B means A is brother of B

Question 7: What is the relation between W and P if the given expression is definitely true?

G % H £ W ¥ V % R £ P
(A) P is son of W,
(B) W is uncle of P
(C) P is sister-in-law of W
(D) Can’t be determined
(E) None of these

Question 8: Which of the following statements is false if the given expression is true?

J £ K £ L @ M ¥ N $ O
(A) M is son of L
(B) K is grandmother of O
(C) M is grandson of J
(D) N is sister of M
(E) None of these
Question 9: Which of the following expressions, if true, makes “N is sister of R” true?

(A) F £ U @ N $ K ¥ R  
(B) N $ F £ K ¥ R $ U  
(C) R $ U ¥ K $ N  
(D) N £ F $ K ¥ R $ U  
(E) None of these

Question 10: Which of the following statements is true if the given expression is definitely true?

A % L $ K £ B ¥ C  
(A) K is sister-in-law of A  
(B) C is daughter of K  
(C) A is father of B  
(D) C is son of L  
(E) None of these

Question 11: What should come in place of question mark to make the expression “E is grandfather of T” true?

E @ V ? N % R £ T  
(A) @  
(B) £  
(C) ¥  
(D) %  
(E) None of these
Direction (12-14): Study the following information carefully and answer the questions given below.

K is sister of P, who is married to N. L is son of M. N is father of S. P is mother in law of M. N has no daughter. Q is daughter of J, who is married to K.

**Question 12:** What is the relation of N with respect to K?

A) Brother  
B) Brother in law  
C) Sister  
D) Sister in law  
E) None of these

**Question 13:** How is J related to S?

A) Father  
B) Mother  
C) Uncle  
D) Grand father  
E) None of these

**Question 14:** What is the relation of L with respect to S?

A) Brother  
B) Sister  
C) Son  
D) Daughter
E) None of these

Direction (15-17): Study the following information carefully to answer the given questions.

B + A' means 'A is son of B'
'B x A' means 'A is father of B'
'A % B' means 'A is son-in-law of B'
'B - A' means 'A is wife of B'
'A * B' means 'B is brother of A'
'A # B' means 'B is the only sister of A'

Question 15: Which symbol will come in place of question marks in the following equation to show that L is paternal aunt of P?
P x Q x R + S ? L

A) #
B) ×
C) –
D) Either a or c
E) None of these

Question 16: Which symbol will come in place of question mark in the following equation to show that V is daughter-in-law of L?
V + Z x T ? L

A) +
B) %
C) #
Question 17: Which two symbols will come in place of question marks in the following equation to show that E is wife of X?
X % P – C ? D ? E

A) x and +  
B) + and –  
C) + and #  
D) Either A or C  
E) None of these

Direction (18-20): Study the following information carefully to answer the given questions
S is sister of R. A is brother of G. A has only one son. M is the wife of A. M is the daughter of S. R is brother-in-law of V.

Question 18: If N is the husband of K and son of M, then how is V related to N?
(A) Paternal grandfather  
(B) Father  
(C) Mother  
(D) Uncle  
(E) Maternal grandfather

Question 19: How is G related to M?
(A) Brother-in-law
(B) Sister-in-law
(C) Brother
(D) Cannot determined
(E) Sister

Question 20: How is R related to M?
(A) Uncle
(B) Father
(C) Aunt
(D) Maternal Uncle
(E) None of these

Direction (21-23): Study the following information carefully to answer the given questions
‘P × Q’ means ‘P is brother of Q’.
‘P – Q’ means ‘P is sister of Q’.
‘P ÷ Q’ means ‘P is father of Q’.
‘P + Q’ means ‘P is mother of Q’.

Question 21: D is brother of K, M is sister of K, T is father of R, who is brother of M. F is mother of K. At least how many sons do T and F have?
(A) Two
(B) Three
(C) Four
(D) Data inadequate
(E) None of these

Question 22: Which of the following mean M is the maternal uncle of T’?

(A) $M \times R + T$
(B) $M \times R \div T$
(C) $T \times J - N \div M$
(D) $M - R + T$
(E) None of these

Question 23: Which of the following means ‘D is nephew of R’?

(A) $D \times M \div R$
(B) $R - M + D$
(C) $R - M \div D \times T$
(D) $R \times M + D$
(E) None of these

Question 24: Pointing to a lady a person said, "The son of her only brother is the brother of my wife." How is the lady related to the person?

(A) Maternal aunt
(B) Grandmother
(C) Sister of father-in-law
(D) Can't be determined
(E) None of these
Question 25: Pointing to a woman in the picture, Raj said her mother has only one grandchild whose mother is my wife. How is the woman in the picture related to Rajesh?
A) daughter  
B) niece  
C) wife  
D) sister-in-law  
E) None of these

Question 26: Pointing to a photograph a lady tells Ram I am the only daughter of this lady and her son is your maternal uncle. How the speaker related to Ram’s father?
A) wife  
B) daughter  
C) sister-in-law  
D) mother-in-law  
E) None of these

Question 27: Pointing towards a photograph Roma said, “His son is only nephew of my father’s only daughter.” Roma has no siblings. How is Roma related to that photograph?
A) Sister  
B) Brother  
C) Uncle  
D) Cousin  
E) Can’t be determined
Question 28: Anu said to a lady sitting in a Chair, "The only daughter of the brother of my wife is the sister-in-law of the brother of your sister." How the husband of the lady is related to Anu?
A. Maternal uncle
B. Uncle
C. Father
D. Son-in-law
E. None of these

Question 29: Pointing to a lady in the photograph K said, “She is the daughter of the daughter of the only son of my grand father.” How is the lady related to K ?
A. Sister
B. Maternal aunt
C. Niece
D. Cousin
E. None of these

Question 30: A lady walking with a boy meets another lady and on being asked about her relationship with the boy, she says, “My maternal uncle and his maternal uncle’s maternal uncle are brothers.” How is the boy related to the lady?
A) Nephew
B) Son
C) Brother-in-law
D) Grandson
E) Son or Nephew

Direction (31-33): Study the following information carefully to answer the given questions

‘P # Q’ means ‘P is the daughter of Q’
‘P © Q’ means ‘P is the brother of Q’
‘P = Q’ means ‘P is the sister of Q’
‘P & Q’ means ‘P is the son of Q’
‘P * Q’ means ‘P is the father of Q’
‘P @ Q’ means ‘P is the mother of Q’

Question 31: What does the expression ‘A * B © D @ C & E’?
A) E is the husband of A
B) B is the son of E
C) B is the daughter of E
D) D is the wife of E
E) None of these

Question 32: Which of the following indicates that ‘K is the grandfather of F’?
A) K & M # O @ P © F @ E
B) K & M & P @ O © F # E
C) K * M @ O = P * F & E
D) F & E = P © O # M = K
E) None of these
Question 33: What does the expression ‘A * B © D # C & E’?
A) E is the husband of A
B) B is the son of E
C) B is the daughter of E
D) D is the wife of E
E) None of these

Direction (34-36): Study the following information carefully to answer the given questions
S who is sister of N. K who is daughter of F and wife of M. F and H are kids of B and C who has only one son and one daughter.
H is married to J who is father of N and has only one daughter. A, who is father in law of E is uncle of H. B, who is father in law of J. E is wife of D.

Question 34: What is the relation of A with respect to F?
A) Uncle
B) Father
C) Mother
D) Can’t be determined
E) None of these.

Question 35: How is C related to J?
A) Father
B) Mother
C) Mother- in-law
D) Father-in-law
E) None of these.

**Question 36: How is S related to F?**
A) Aunt
B) Uncle
C) Nephew
D) Niece
E. Daughter

**Direction (37-39): Study the following information carefully to answer the given questions**
B is the brother of M. M has only one daughter. M is the mother of X. X is the sister of C. O is the father of C. C is married to Z. A is the son of C.

**Question 37: How is M related to Z?**
(a) Cannot be determined
b) Sister-in-law
(c) Mother
(d) Aunt
(e) Mother-in-law

**Question 38: How is C related to B?**
(A) Father
(B) Father-in-law
(C) Mother
(D) Maternal Uncle
Question 39: How is A related to O?

(A) Father
(B) Grand son
(C) Son
(D) Maternal Uncle
(E) None of these

Question 40: Pointing to woman in the photograph, a man said, “Her brother is the only son of my wife’s father.” How is the woman in the photograph related to the man?

(A) Wife
(B) Sister
(C) Sister-in-law
(D) Either (a) or (c)
(E) None of these

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