

INEQUALITY (Class Notes)

Direction (1-30): Study the following information carefully to answer the given questions:

- (a) Only I true
- (b) Only II true
- (c) Either I or II true
- (d) Neither I nor II true
- (e) Both I and II true

Statement: $P \geq Q > R = S > T < U \leq V$

- 1. (I) $P > S$ (II) $Q > T$
- 2. (I) $V \geq P$ (II) $R > V$
- 3. (I) $Q \geq U$ (II) $Q > U$
- 4. (I) $R > T$ (II) $U < Q$
- 5. (I) $S > P$ (II) $T < V$

Statement: $E \geq L \geq Y < G \leq N > S$

- 6. (I) $E \geq N$ (II) $L > S$
- 7. (I) $L \leq N$ (II) $L < N$
- 8. (I) $Y < N$ (II) $Y > E$
- 9. (I) $E > Y$ (II) $Y = E$
- 10. (I) $L \geq G$ (II) $G > L$

Statement: $G \geq R > L < M < K < T$

- 11. (I) $G > M$ (II) $T > L$
- 12. (I) $L < R$ (II) $K > L$
- 13. (I) $R > K$ (II) $T > R$
- 14. (I) $G > K$ (II) $G = K$
- 15. (I) $R \geq T$ (II) $T < R$

Statement: $E \geq P > O \geq K; G \leq F < P \leq M$

- 16. (I) $E > M$ (II) $K < G$
- 17. (I) $K < G$ (II) $G < E$
- 18. (I) $E > F$ (II) $K < P$
- 19. (I) $M \geq E$ (II) $M < E$

20. (I) $F > K$ (II) $G < E$

Statement: $G \geq R > S = T > V; M < L \leq R > K$

- 21. (I) $G > K$ (II) $V < M$
- 22. (I) $M < V$ (II) $G > M$
- 23. (I) $T \geq L$ (II) $L > P$
- 24. (I) $S > K$ (II) $T \leq K$
- 25. (I) $V \leq M$ (II) $M \geq T$

Statement: $L \geq J \geq U \leq P; U > T$

- 26. (I) $L \leq D$ (II) $J < T$
- 27. (I) $P \geq U$ (II) $L > T$
- 28. (I) $U \geq D$ (II) $L < P$
- 29. (I) $U \geq P$ (II) $P > U$
- 30. (I) $L \leq D$ (II) $T \geq J$

Statement: $E \geq L \leq K < Y = N < G > P$

- 31. (I) $P \geq E$ (II) $L < G$
- (III) $P \leq E$ (IV) $G > K$
- (a) II and III only
- (b) I and IV only
- (c) II and IV only
- (d) All I, II, III and IV
- (e) None of these

Statement: $Y \geq R > S < L = T \leq M$

- 32. (I) $Y \geq T$ (II) $Y > S$
- (III) $L < R$ (IV) $Y < T$
- (a) III only
- (b) I and IV only
- (c) II only true
- (d) II and III only
- (e) None of these

Statement: $A \geq U \leq T > I \geq S$

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33. (I) $A \geq I$ (II) $T < S$

(III) $A < S$ (IV) $I > A$

- (a) Only II
- (b) Only I
- (c) Only II and IV
- (d) All I, II, III and IV
- (e) None of these

Statement: $P \geq R < S \geq G \geq Y > L$

34. (I) $P \geq Y$ (II) $S > L$

(III) $R \leq L$ (IV) $P < Y$

- (a) Only II
- (b) Only I
- (c) Only II and IV
- (d) All I, II, III and IV
- (e) None of these

Statement: $A \geq B > C = D; E \geq L \geq C < F$

35. (I) $A \geq F$ (II) $F > D$

(I) $B > E$ (IV) $L \geq B$

- (a) Only IV
- (b) Only IV and II
- (c) Only II
- (d) Only I
- (e) None of these

Statement: $P \geq Y < A \leq R < E; L \geq A > X \geq M > I$

36. (I) $P \geq I$ (II) $E \geq L$

(III) $R > I$ (IV) $P < I$

- (a) Only III
- (b) Only III and IV
- (c) Only I
- (d) All I, II, III and IV

(e) None of these

Statement: $B > C = D \geq X; E \leq X; Z \geq D$

37. (I) $B > E$ (II) $S \geq B$

(III) $E \leq Z$ (IV) $Z \leq B$

- (a) All I, II, III and IV
- (b) Only I
- (c) Only I and III
- (d) Only I and IV
- (e) None of these

Statement: $K \leq L < M > N \geq O; T > M \leq P$

38 (I) $T > K$ (II) $P > O$

(III) $R > I$ (IV) $P < I$

- (a) Only II and IV
- (b) Only I and II
- (c) Only I, II, IV
- (d) All I, II, III and IV
- (e) None of these

Statement: $I > L \geq O > V \geq E; Y < O < U; M \geq E$

39. (I) $M \geq I$ (II) $U \leq L$

(III) $K < P$ (IV) $L \leq P$

- (a) Only I
- (b) Only II and III
- (c) Only III and IV
- (d) Only III
- (e) None of these

Statement: $B > O = K \geq L; D > K \geq S$

40. (I) $O < D$ (II) $S \leq L$

(III) $L > D$ (IV) $B > S$

- (a) Only I
- (b) Only I and III

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- (c) Only I and IV
 (d) All I, II, III and IV
 (e) None of these

Statement: $S \leq L < I = P \geq E > R ; L > Q$

41. (I) $P \geq S$ (II) $I > R$
 (III) $L < R$ (IV) $B > S$

- (a) Only I
 (b) Only II and III
 (c) Only III and IV
 (d) Only II, III and IV
 (e) None of these

CODED INEQUALITY

$P * Q$; P is either smaller or equal to Q.

$P \% Q$; P is neither smaller nor equal to Q.

$P @ Q$; P is either greater or equal to Q.

$P \$ Q$; P is neither greater nor equal to Q.

$P \# Q$; P is neither greater nor smaller to Q.

1. $N * D ; D \# F ; B @ F$

- (I) $B * D$ (II) $F \# N$

2. $W \$ K ; K * H ; H @ R$

- (I) $R \$ K$ (II) $H \% W$

3. $K @ R ; R \% T ; T \# J$

- (I) $J \$ R$ (II) $T \$ K$

4. $H \$ T ; T \$ W ; W @ K$

- (I) $W \$ H$ (II) $W @ H$

5. $B \% F ; E @ F ; F * M$

- (I) $M \% E$ (II) $B @ F$

$P \# Q$; P is greater than Q.

$P \$ Q$; P is not smaller than Q.

$P @ Q$; P is neither smaller nor greater than Q.

$P * Q$; P is neither greater nor equal to Q.

$P \% Q$; P is neither smaller nor equal to Q.

1. $D @ M ; M \$ B ; B * R \% T$

- (I) $B * D$ (II) $B @ D$ (III) $T * M$

2. $W \# F ; F @ D ; K * D , K \$ J$

- (I) $J \% W$ (II) $D \$ W$ (III) $F * K$

3. $R * K ; K \# N ; M \% T ; T \$ J$

- (I) $T * M$ (II) $R * M$ (III) $K \# J$

4. $T \$ N ; N \% B ; B @ W ; K \# W$

- (I) $K \$ B$ (II) $K \$ T$ (III) $T \% B$

5. $Z \% V ; V * J ; J \# M ; M @ R$

- (I) $R \% V$ (II) $M \% V$ (III) $Z \% M$

MISSING SYMBOL

(1-3) Which of the symbol should replace the question mark (?) in the given expression to make the conclusion definitely true?

1. Statement :- $P \geq Q ? R = S \geq T$

- (I) $P > R$ (II) $T < Q$

2. Statement :- $P > Q \geq R ? S = T \geq U$

- (I) $P > T$ (II) $T > U$

3. Statement :- $K \geq L > M ? N = O > P$

- (I) $K > N$ (II) $M > P$

4. Which of the following symbols should be placed in the place of question mark (in the same order from left to right) in order to complete the given expression in such a manner that $L > Q$, $J < S$ and $Q \leq M$ definitely hold true:

$L > S ? E \geq Q ? J ? M$

- (I) $>, >, \leq$ (II) $>, =, <$

- (III) $\geq, =, \leq$ (IV) $>, =, \leq$

5. Which of the following symbols should be placed in the place of question mark (in the

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same order from left to right) in order to complete the given expression in such a manner that $L > E$, $K \leq M$ and $P > E$ definitely hold true:

$P \geq J ? K = E ? M ? L$

(I) $\geq, >, <$ (II) $>, \leq, <$

(III) $\geq, <, \leq$ (IV) $>, <, \leq$

6. Which of the following symbols should be placed in the place of question mark (in the same order from left to right) in order to complete the given expression in such a manner that $G > A$; $G \leq R$ are definitely false and $P > T$ definitely hold true:

$A \geq N \geq Y ? G < P ? R > T$

(I) $>, >$ (II) $>, =$

(III) $\geq, =$ (IV) $\leq, =$

7. Which of the following expression is definitely true if the expression $P > S$ is definitely false and the expression $W < A$ is true

(I) $E \geq P > L = S > W \geq Q = A$

(II) $G \geq P = Q > L = S > Q < A$

(III) $S > K = W = P < Q \leq A$

(IV) $G > S \geq K < W = P > Q < A$