

INEQUALITY

Directions (1-50): In the following question, assuming the given statements to be true, find which of the given conclusions is/are definitely true and then choose the right option accordingly.

1. Statements:

$$R > S > T; R > F > B.$$

Conclusions:

I. $B > S$

II. $F < T$

- a) Only I is true
- b) Only II is true
- c) Both I & II are true
- d) Neither I nor II is true
- e) Either I or II is true

2. Statement:

$$W > D \geq C = X < A < Z \leq F$$

Conclusion:

I. $Z > C$

II. $X < W$

- a) None is true
- b) Only II is true
- c) Only I is true
- d) Both I and II are true
- e) Either I or II is true

3. Statement:

$$L \geq M = N < O, P < Q \geq R = S \geq L$$

Conclusion:

I. $Q > M$

II. $N = Q$

- a) None is true
- b) Only II is true
- c) Only I is true
- d) Both I and II are true
- e) Either I or II is true

4. Statements:

$$D \geq E > F = A \leq U < L \geq T = R$$

Conclusions:

I. $F < L$

II. $D > A$

- a) None is True
- b) Both I and II are True
- c) Only II is True
- d) Only I is True
- e) Either I and II is True

5. Statements:

$$J \geq N \leq T; T = S > R; K > V \geq J$$

Conclusions:

I. $V \geq N$

II. $K > J$

- a) Only II is true
- b) Only I is true
- c) Either I or II is true
- d) Both I and II are true
- e) None of these

6. Statements:

$$Q \leq R; S < T; P > Q; R > S$$

Conclusions:

I. $S = Q$

II. $T \geq P$

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

7. Statement:

$$X < C, W > D, G \geq W, C = D$$

Conclusion:

I. $C \leq G$

II. $W > X$

- a) None is true

- b) Only II is true
- c) Both I and II are true
- d) Only I is true
- e) Either I or II is true

8. Statements:

$M > A \leq T < D$; $R > G = A$; $O \geq T = N$;

Conclusions:

I. $T < R$

II. $N < R$

III. $A = N$

- a) Only I and II are true
- b) Only I is true
- c) Only III is true
- d) Only II is true
- e) None is true

9. Statements:

$B \geq C = D \geq E$; $A \leq F \leq P = D$

Conclusions:

I. $D \geq A$.

II. $B \geq F$.

- a) Only conclusion I is true.
- b) Only conclusion II is true.
- c) Either conclusion I or conclusion II is true.
- d) Neither conclusion I nor conclusion II is true
- e) Both conclusions I and II are true.

10. Statements:

$P = S < T \leq U$; $Q \leq U = A \geq B$

Conclusions:

I. $Q = B$

II. $S \leq A$

- a) Only conclusion I is true.
- b) Only conclusion II is true.

c) Either conclusion I or conclusion II is true.

d) Neither conclusion I nor conclusion II is true.

e) Both conclusions I and II are true.

11. Statement:

$U < V < W$; $Z \leq T = S < V$; $X > W \leq A$;

Conclusions:

I. $S > Z$

II. $T < W$

III. $T < A$

- a) Only I is true
- b) Only II is true
- c) Only III is true
- d) Only II and III are true
- e) None is true

12. Statements:

$B < Q = F \leq N$, $F \geq L \geq S$, $B \geq K$

Conclusions:

I. $N \geq S$

II. $F > K$

III. $B < F \geq S$

- a) Only I is true
- b) Only II is true
- c) Only I and II are true
- d) All I, II and III are true
- e) Only II and III are true

13. Statement:

$D = A < C > B > D$

Conclusions:

I. $C > A$

II. $D < B$

- a) Only II follows
- b) Both follow
- c) Either I or II follows

- d) Neither I nor II follows
e) Only I follows

14. Statement: $Z < M \geq Y \geq N > L$ **Conclusion:**I. $Z < L$ II. $M > L$

- a) Both follow
b) Only I follows
c) Only II follows
d) Either I or II follows
e) Neither I nor II follows

15. Statement: $D > F \geq G \geq H \geq I > J$ **Conclusions:**I. $D > I$ II. $I \leq F$

- a) Only I follows
b) Only II follows
c) Either I or II follows
d) Neither I nor I follows
e) Both follow

16. Statements: $Y \leq U > T; W < Q > P; G > U < P$ **Conclusions:**I. $Q > T$ II. $G > Y$ III. $G > T$

- a) Only conclusion II is true.
b) Both conclusions II and III are true.
c) All the conclusions I, II and III are true.
d) Only conclusion I is true
e) None is true.

17. Statements: $T > Y \geq E < C; W > E = N > J; S \leq Q < J$ **Conclusions:**I. $C > Q$ II. $N \leq Y$ III. $W > S$

- a) Only conclusion II is true
b) Only conclusion I is true
c) Both conclusions I and III is true
d) All of the conclusions are true
e) Both conclusions I and II are true

18. Statements: $I > O < A; Q \leq O > R; E > Q \geq P > C$ **Conclusions:**I. $I \geq C$ II. $A > P$ III. $A \geq E$

- a) Only conclusion I is true
b) Only conclusion II is true
c) Both conclusions I and III is true
d) None of the conclusions is true
e) Both conclusions I and II are true

19. Statements: $O \geq D \leq J < L; D > G \geq B \geq F > K > T$ **Conclusions:**I. $L \geq K$ II. $O > T$ III. $J \geq B$

- a) Only conclusion II is true
b) Only conclusion I is true
c) Both conclusions I and III is true
d) None of the conclusions is true
e) Both conclusions I and II are true

20. Statements: $T \geq W > S > G; B > N = W \leq L < U \leq K$

Conclusions:

I. $B > S$

II. $K = T$

III. $U > G$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and III is true
- d) None of the conclusions is true
- e) Both conclusions I and II are true

21. Statements:

$Y \geq E \leq D < P; E > S \geq Q > O > F \geq B$

Conclusions:

I. $Y \geq F$

II. $P \geq B$

III. $D > F$

- a) Only conclusion I is true
- b) Only conclusion III is true
- c) Both conclusions I and III is true
- d) None of the conclusions is true
- e) Both conclusions I and II are true

22. Statements:

$P \leq R < T; G \geq Z = F; B < M = G \geq R$

Conclusions:

I. $F \leq M$

II. $P \leq G$

III. $B < R$

- a) Only conclusion II is true.
- b) Both conclusions II and III are true.
- c) All the conclusions are true.
- d) Both conclusions I and II are true.
- e) None is true.

23. Statement:

$Z \geq Q; U > V; Z \geq O; Q \geq U; I = Q$

Conclusions:

I. $U > O$

II. $O > Q$

III. $Q > V$

- a) Both conclusions II and III are true
- b) Only conclusion I is true
- c) Only conclusion III is true
- d) Only conclusion II is true
- e) Both the conclusions I and III are true

24. Statement:

$E > K \leq T; D > X; I \geq T \leq F > X$

Conclusions:

I. $I > X$

II. $I \geq F$

III. $D > T$

- a) Both conclusions II and III are true
- b) Only conclusion I is true
- c) Only conclusion III is true
- d) Only conclusion II is true
- e) None of the conclusions follows

25. Statements:

$E > T \leq R; C < R > I; G > E$

Conclusions:

I. $G > C$

II. $T \leq I$

III. $G > T$

- a) Only conclusion II is true
- b) Both conclusions II and III are true
- c) Only conclusion III is true
- d) Only conclusion I is true
- e) None is true

26. Statements:

$Q > T; Y \geq R < L; Q = J; J < L$

Conclusion:

I. $Y > T$

II. $L > T$

III. $R > Q$

- a) Only conclusion II is true.
- b) Both conclusions II and III are true.
- c) Only conclusion III follows.
- d) Only conclusion I is true
- e) None is true.

27. Statement:

$R \geq T > Y = I; O < L; L \leq T$

Conclusions:

I. $R > O$

II. $L > I$

III. $O > R$

- a) Only conclusion II is true.
- b) Both conclusions II and III are true.
- c) Only conclusion III follows.
- d) Only conclusion I is true
- e) None is true.

28. Statements:

$E > Q \leq V; T > U < Q; E = C$

Conclusions:

I. $C > U$

II. $V > U$

III. $T > E$

- a) Only conclusion II is true.
- b) Both conclusions I and II are true.
- c) Only conclusion III follows.
- d) Only conclusion I is true
- e) None is true.

29. Statements:

$P > Q > R \leq T; O \geq P; Y < R = X$

Conclusions:

I. $O \geq X$

II. $P > Y$

III. $T > P$

- a) Only conclusion II is true.
- b) Both conclusions I and II are true.
- c) Only conclusion III follows.
- d) Only conclusion I is true
- e) None is true.

30. Statements:

$W > B < M; D > V = B; 9 > 8 = W$

Conclusions:

I. $9 > B$

II. $W > M$

III. $D > 9$

- a) Only conclusion II is true.
- b) Both conclusions II and III are true.
- c) Only conclusion III follows.
- d) Only conclusion I is true
- e) None is true.

31. Statements:

$I \geq S = U, O = U, I = M = P$

Conclusions:

1. $I \geq O$

2. $U \leq I$

- a) Only 1 follows
- b) Only 2 follows
- c) Both 1 and 2 follow
- d) Neither 1 nor 2 follow
- e) Either 1 or 2 follows

32. Statements:

$R \geq K \geq F, D > F, R \geq C \leq S$

Conclusions:

1. $D > K$

2. $R \geq F$

- a) Only 1 follows
- b) Only 2 follows
- c) Both 1 and 2 follow

- d) Neither 1 nor 2 follow
e) Either 1 or 2 follows

33. Statements:

$$B < H, X = C \geq P, X > N < H$$

Conclusions:

1. $N > B$
 2. $C \geq H$
- a) Only 1 follows
b) Only 2 follows
c) Both 1 and 2 follow
d) Neither 1 nor 2 follow
e) Either 1 or 2 follows

34. Which of the following symbols should replace the question marks respectively so that 'F < P' is definitely true?

$$P ? Q = R ? S = F < T > U$$

- a) < and >
b) > and =
c) > and >
d) > and <
e) < and <

35. Which of the following symbols should replace the question marks respectively so that $G > C$ is definitely true?

$$G > F ? B = R ? A = C < Q > D$$

- a) < and >
b) > and <
c) > and >
d) > and <
e) < and <

36. Which of the following order of letters (from left to right) in the blanks makes the expression, $L > G$ definitely true?

$$\underline{\quad} > \underline{\quad} = \underline{\quad} \leq \underline{\quad} = \underline{\quad}$$

- a) L,A,O,S,G
b) L,S,G,O,A
c) G,L,O,S,A
d) G,O,A,L,S
e) L,S,A,G,O

37. If $O \geq U > R \leq S$ and $T \geq U > M < L$ are true, which of the following options is neither definitely true nor definitely false?

- a) $O > M$
b) $R < T$
c) $S > L$
d) $T < R$
e) None of these

38. Statements:

$$W \leq K, H > T \geq L, K = C \geq X, H < Y = X, A > L$$

Conclusions:

1. $A > X$
 2. $C > L$
- a) Only 1 follows
b) Only 2 follows
c) Both 1 and 2 follow
d) Neither 1 nor 2 follow
e) Either 1 or 2 follows

39. Statements:

$$J \leq Q, O > P = C, R \geq X < Q, G = O, R < D \geq C$$

Conclusions:

1. $J > C$
 2. $C \geq Q$
- a) Only 1 follows
b) Only 2 follows
c) Both 1 and 2 follow
d) Neither 1 nor 2 follow
e) Either 1 or 2 follows

40. Statements:

$T = X, S = O < B, S \geq P = A, X < U < A, R > B$

Conclusions:

1. $A < R$

2. $P < B$

a) Only 1 follows

b) Only 2 follows

c) Both 1 and 2 follow

d) Neither 1 nor 2 follow

e) Either 1 or 2 follows

41. If $E < G$ and $O < G$ are definitely true then which of the following symbols should be placed in the blank spaces respectively?

$D > E _ F = G > B = N _ O$

a) $<, >$

b) $<, >$

c) $<, =$

d) $>, >$

e) None of these

42. In which of the given expression does the expression $N > Q$ and $L > P$ definitely hold True?

a) $L > M \geq N < O = P \leq Q < R$

b) $L > M \geq N > O = P \leq Q < R$

c) $L > M \geq N > O = P \geq Q < R$

d) $L > M \geq N \leq O = P \leq Q < R$

e) $L \geq M \geq N \geq O = P \geq Q < R$

43. If $M \leq A = T < C; U > P \geq T < K$ and $X > A > N$ are true, which of the following options is definitely true?

a) $U < T$

b) $C \geq N$

c) $X < P$

d) $N < K$

e) All the options are false

44. If $M > C \geq D; S \leq C < A \leq N$ and $K \geq B > A$ are true, which of the following options is definitely true?

a) $K > N$

b) $M < S$

c) $B > S$

d) $M = N$

e) $N \geq D$

45. Which of the following symbols should replace the question mark in the given expression in order to make the expressions ' $K \leq H$ ' and ' $M > J$ ' definitely true? $H \geq I = J$? $K \leq L < M$

a) $>$

b) \geq

c) \leq

d) Either $<$ or \leq

e) $=$

Directions (46 – 50): Relationship between different elements is shown in the statements. Find if the conclusions also follow or not.

46. Statements:

$W > S \leq Q, D \leq S, I \leq B = D$

Conclusions:

I. $Q \geq I$

II. $Q = I$

a) Only I follows

b) Only II follows

c) Either I or II follows

d) Neither I nor II follow

e) Both I and II follow

47. Statements:

$Q < D \leq A, C > A < K, D \geq S$

Conclusions:

I. $K > D$

II. $C > S$

a) Only I follows

b) Only II follows

c) Either I or II follows

d) Neither I nor II follow

e) Both I and II follow

d) Neither I nor II follow

e) Both I and II follow

48. Statements:

$S > N \geq F, P = N, E > S$

Conclusions:

I. $E > P$

II. $F < E$

a) Only I follows

c) Only II follows

c) Either I or II follows

d) Neither I nor II follow

e) Both I and II follow

49. Statements:

$E \geq L > K, L > F < D, P > E$

Conclusions:

I. $P > D$

II. $E > F$

a) Only I follows

b) Only II follows

c) Either I or II follows

d) Neither I nor II follow

e) Both I and II follow

50. Statements:

$Q \geq X \geq S, S < A, A > E$

Conclusions:

I. $E > X$

II. $X \geq E$

a) Only I follows

b) Only II follows

c) Either I or II follows