

$> < \geq \leq =$



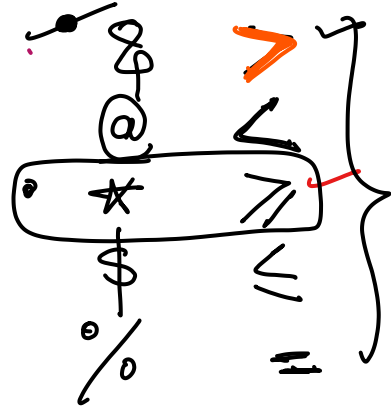
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Logical Reasoning- INEQUALITIES

Directions (1 – 5): Study the following information and answer the questions below:

P & Q – P is neither smaller than nor equal to Q
P @ Q – P is neither greater than nor equal to Q
P * Q – P is not smaller than Q
P \$ Q – P is not greater than Q
P % Q – P is neither greater than nor smaller than Q

- Only conclusion 1 follow
- Only conclusion 2 follow
- Either 1 or 2 follow
- Both follow
- Neither conclusion 1 nor 2 follow



1). Statement: A * B, B & E, F & E, F * D
Conclusion: 1) A & E 2) A & D

①

$A \geq B > E < F \geq D$

2). Statements: A % B, B & C, C * D, D \$ E
Conclusion: 1) A & C 2) B * D

②

$A = B > C \geq D \leq E$

3). A % B, C & B, C * D, E @ D
Conclusions: 1) C % D 2) C & D

③

$A = B < C \geq D > E$

4). A & B, B @ C, C \$ D, E & D
Conclusion: 1) E & A 2) B * E

$A \geq B \leq C > D \geq E$
 $E @ C$

5). A * B, B \$ C, C & D, D * E
Conclusion: 1) A & D 2) E @ C

Directions (6 – 10): Answer the following questions with these options:

- only 1st follows
- only 2nd follows
- either 1st or 2nd
- neither 1st nor 2nd
- both 1st and 2nd

6). Statements: $K > B \leq G = A, G \leq P \leq Q, A \leq M$
Conclusions:

I. $Q > M$ II. $Q \leq M$

7). Statements: $Q \geq P > K, P > F < C, A > W$

Conclusions:

I. $Q > F$ II. $A > C$

WED - 2hr coding
Th - Anshul Sir + Rachit
Fr - Akshat Sir
Sat - Shubham - Intro pop
Sun - Acent mock 4T
M - okesh
T - okesh
cloud



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8).Statements: $Q > V < B \leq P, A \leq M \leq V, G < M$

Conclusions:

I. $P > G$ II. $A < Q$

9).Statements: $L > P, P < N, N \geq A$

Conclusions:

I. $A < P$ II. $L > N$

10).Statements: $K \geq T \geq J, R < L, L > O$

Conclusions:

I. $O > T$ II. $K > L$

11).What should come in place of question mark in the expression

$P > Q ? R < T < S$ so as to make the expressions $P > R$ and $S > Q$ always true?

- a) = b) >
c) < d) >= e) None of these

12).What should come in place of question mark in the expression $A = B > C ? D < E = F$ so as to make the expression $F > C$ always true?

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

13).Which of the following symbols should be placed in the blank spaces respectively(in the same order from left to right) in order to complete the given expression in such a manner that both ' $D > S$ ' as well as ' $E \leq B$ ' definitely holds true? $B _ A _ S _ E _ D$

- a) >, ≥, <, =
b) >, >, ≥, <
c) ≥, ≥, ≥, ≤
d) ≥, =, ≥, <
e) Other than those given as options

Statements: $M \leq V; P < R; P = M; S > T; R \leq T$

Conclusions:

- I. $S > M$ II. $V = P$ III. $P < V$ IV. $T < P$
A. Only I is true B. Only II is true C. None is true D. Either II or III and I are true E. All are true

Statements: $B < P; P \leq S; S = M; M \geq F; Q \geq M; M < O$

Conclusions:

- i. $P \leq F$ ii. $B < Q$ iii. $Q \geq M$ iv. $F < O$
A. Only I, II and III are true B. Only II is true C. Only II, III and IV are true D. Neither I nor II is true
E. None is true

Statements: $A \geq B; F < E; A \leq D; F \leq B; C = B$

Conclusions:

- I. $C < E$ II. $D \geq B$ III. $A \geq F$ IV. $E > D$
A. Only II is true B. Only III is true
C. Either I or II true D. II and III are true E. I and II are true



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Statements: $P=M$; $Q \leq R$; $T > Q$; $M < R$

Conclusions:

- I. $M < R$ II. $R > T$ III. $P > T$ IV. $P > Q$

A. None is true B. Only I is true C. Only I and II are true D. Only II and III are true E. Only IV is true

Statements: $S = A$; $R < T$; $R \geq S$; $P \geq Q$; $Q > A$

Conclusions:

- I. $P > S$ II. $Q > S$ III. $T < A$ IV. $A \geq R$

A. Only I is true B. Only II is true
C. Only I and II are true D. Only III and IV are true E. All are true

Direction(6-10): Study the following information to answer the given questions

$P \$ Q$ means P is not smaller than Q

$P @ Q$ means P is neither smaller than nor equal to Q

$P \# Q$ means P is neither greater than nor equal to Q

$P \& Q$ means P is neither greater than nor smaller than Q

$P * Q$ means P is not greater than Q

Statements: $A \$ M$, $P @ L$, $K \# P$, $A \$ L$

Conclusions:

- I. $K \# L$ II. $A @ P$ III. $L * A$ IV. $M \# P$

A. None is true B. Only I is true
C. Only II is true D. Only III is true E. Only IV is true

Statements: $W * N$, $K * V$, $Y @ V$, $W @ K$

Conclusions:

- I. $Y @ K$ II. $W \$ N$ III. $W @ Y$ IV. $W @ V$

A. None is true B. Only I is true
C. Only II is true D. Only III is true E. Only IV is true

Statements: $T * Y$, $S \# M$, $Y \$ S$, $M @ K$

Conclusions:

- I. $K \# S$ II. $Y @ M$ III. $T \# M$ IV. $Y @ K$

A. None is true B. Only I is true
C. Only II is true D. Only III is true E. Only IV is true

Statements: $S @ L$, $L \# M$, $M \& B$, $B * Q$

Conclusions:

- I. $Q \$ M$ II. $B @ L$ III. $S @ Q$ IV. $L @ Q$

A. I, II and III are true B. I, II are true
C. I, III are true D. I, III and IV are true E. All are true

Statements: $C \# P$, $P * L$, $L @ E$, $E \$ M$

Conclusions:

- I. $M \# P$ II. $M @ L$ III. $P \# E$ IV. $L \# C$

A. None is true B. Only I is true
C. Only II is true D. Only III is true E. Only IV is true



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Statements: $Q \geq R$, $P > R$, $P = O \geq T$, $S \geq U > Q$

Conclusions:

I. $S \geq R$ II. $P < T$ III. $Q < T$ IV. $U > R$

A. Only I is true B. Only II is true C. Only III is true D. Only IV is true E. All are true

Statements: $E < D$, $F > C$, $D < F$, $C \geq A = B$

Conclusions:

I. $A < E$ II. $F > B$ III. $E > C$ IV. $B > C$

A. Only I is true B. Only II is true C. Only III is true D. Only IV is true E. All are true

Statements: $O = R$, $P = N > I$, $M \geq R$, $N > M$

Conclusions:

I. $O < I$ II. $R < N$ III. $N < I$ IV. $O = I$

A. Only II is true B. Only III is true C. None is true D. Either I or IV and II are true
E. All are true

Statements: $P < A > S$, $B = Q > T$, $S \leq M < T$

Conclusions:

I. $P < T$ II. $S \leq T$ III. $M < Q$ IV. $B = M$

A. Only I is true B. Only II is true C. Only III true D. Only IV is true E. All are true

Statements: $G \leq J < I$, $N \geq K = H$, $N = F > G$

Conclusions:

I. $H < G$ II. $G < I$ III. $K = G$ IV. $K < G$

A. Only II and IV is true B. Only II and III is true C. None is true D. Either III or IV and II are true
E. All are true

Statements: $D < A \leq E < L$, $A = K > N$, $L > K \geq M$

Conclusions:

I. $D > M$ II. $L > M$ III. $K \leq N$ IV. $M \leq A$

A. Only I is true B. Only II is true C. Only I and II are true D. Only II and IV are true E. All are true

Statements: $X > S = T \leq U$, $Y = Z > V \geq U$, $S = W > O$

Conclusions:

I. $S = W$ II. $T < Y$ III. $X > O$ IV. $T \leq V$

A. Only I and IV are true B. Only II is true C. Only II and III are true D. Either I or III and I are true
E. All are true

Statements: $F \leq H \geq T \leq B$, $A \geq Q = B$, $T > K = G$

Conclusions:

I. $A \geq T$ II. $T = G$ III. $K < A$ IV. $F > T$

A. Only I and II are true B. Only I and III are true C. Either I or III are true D. Either I or IV and III are true
E. All are true

What should come in place of question mark to make $S > Q$ always true?

$R \leq T > P = S > R$? $O > Q$

A. $>$ B. $=$ C. \geq D. All of these E. None of these



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What should come in place of question mark to make $E \leq I$ always true?

$D > E \leq F = M ? K \leq C ? I$

A. \leq, \leq B. $\leq, <$

C. $=, \geq$ D. \geq, \leq E. None of these

Directions (6-10): In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions:

- (a) If only conclusion I follows.
 (b) If only conclusion II follows.
 (c) If either conclusion I or II follows.
 (d) If neither conclusion I nor II follows.
 (e) If both conclusion I and II follow.

Q6. Statements: $A \leq D < C \geq B < E$

Conclusion:

I. $C > A$

II. $A \geq C$

Q7. Statements: $P > L \leq M < N > Q$

Conclusion:

I. $P > Q$

II. $Q > M$

Q8. Statement: $S \geq T = U < V \geq X$

Conclusions:

I. $V > S$

II. $V > T$

Q9. Statement: $M \leq N > O \geq P = Q$

Conclusions:

I. $M \geq Q$

II. $Q < M$

Q10. Statement: $U \leq V < W = X < Y$

Conclusions:

I. $Y > V$

II. $W > U$

Directions (11-13): Read the statements carefully and answer the following questions.

Q11. In which of the following expressions will the expression ' $H < J$ ' be definitely true?

- (a) $G < H \geq I = J$
 (b) $H > G \geq I = J$
 (c) $J = I \geq G > H$
 (d) $H \geq G > I < J$
 (e) None of these

Q12. Which of the following expressions will be true if the expression ' $K \geq L > M \geq N$ ' is definitely true?

(a) $N \leq K$

(b) $K = M$

(c) $K < N$

(d) $L \geq N$

(e) None is true

Q13. Which of the following expressions will be true if the expression ' $M \geq K < T = Q$ ' is definitely true?

(a) $Q < K$

(b) $M \geq T$

(c) $K < Q$



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- (d) $T = M$
 (e) None is true

Directions (14-15): In each question, four statements showing relationship have been given, which are followed by three conclusions I, II and III. Assuming that the given statements are true, find out which conclusion(s) is/are definitely true.

→ Q14. Statements: $F \geq M$, $M > A$, $R < A$, $E > R$

Conclusions: I. $M > E$
 II. $F \geq E$
 III. $F < E$

- (a) Only I follows
 (b) Only I & II follow
 (c) Only II and III follow
 (d) either II or III follows
 (e) All follow

$$F \geq M > A > R < E$$

$$\begin{array}{l} F > E \\ \text{or} \\ F < E \\ \text{or} \\ F = E \end{array}$$

Q15. Statements: $A \geq B$, $M > B$, $D < M$, $F = D$

Conclusions: I. $B < D$
 II. $B < A$
 III. $M > F$

- (a) All follow
 (b) Only I & II follow
 (c) Only II and III follow
 (d) Only either II or III follows
 (e) Only III follows

$$A \geq B < M > D = F$$

$$\begin{array}{l} \text{II } B < A \\ \text{III } B = A \end{array} \left. \vphantom{\begin{array}{l} \text{II } B < A \\ \text{III } B = A \end{array}} \right\} \text{Either} \\ \text{II or III}$$

Directions (1-5): In these questions, relationship between different elements is show in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

Q1. Statements: $C \geq N \geq Y > A < W < B = L > D$

Conclusion I: $A < C$ II: $D > W$

- (a) If only conclusion I follows.
 (b) If only conclusion II follows.
 (c) If either conclusion I or II follows
 (d) If neither conclusion I nor II follows.
 (e) If both conclusions I and II follow.

(c) If either conclusion I or II follows

(d) If neither conclusion I nor II follows.

(e) If both conclusions I and II follow.

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Q2. Statements: $D \geq R = Q \leq P < F > E > I < L > C$

Conclusion I: $R < F$ II: $E > C$

- (a) If only conclusion I follows.
 (b) If only conclusion II follows.
 (c) If either conclusion I or II follows
 (d) If neither conclusion I nor II follows.
 (e) If both conclusions I and II follow.

Q4. Statements: $Q > X > D = M > K \leq L = E < C$

Conclusion I: $M < C$ II: $K < Q$

- (a) If only conclusion I follows.
 (b) If only conclusion II follows.
 (c) If either conclusion I or II follows
 (d) If neither conclusion I nor II follows.
 (e) If both conclusions I and II follow.

Q3. Statements: $S \leq N \leq P > W = K \geq I \geq G = M$

Conclusion I: $W = M$ II: $M < W$

- (a) If only conclusion I follows.
 (b) If only conclusion II follows.

Q5. Statements: $G > K > Y \geq D < M \leq S = T > P \geq L$

Conclusion I: $D < G$ II: $S > L$

- (a) If only conclusion I follows.
 (b) If only conclusion II follows.
 (c) If either conclusion I or II follows
 (d) If neither conclusion I nor II follows.
 (e) If both conclusions I and II follow.

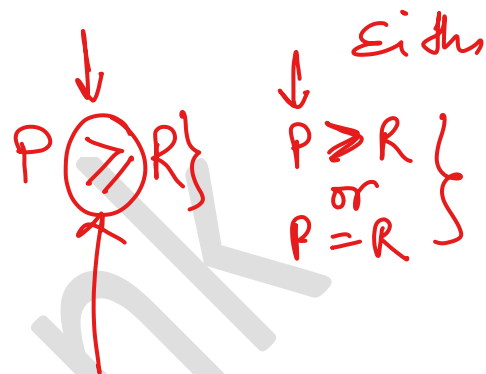


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$$P \supset Q \supset R \supset S \supset T$$

$$I \quad P = R$$

$$II \quad P \supset R \quad \checkmark$$



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