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INEQUALITIES QUIZ 5

Directions: Study the following question carefully and choose the right answer.

(1). **Statement:** $M \geq P < H, V > T = M$

Conclusions: I. $V > P$ II. $T \geq H$

- A. If only conclusion I is true
- B. If only conclusion II is true
- C. If either conclusion I or II is true
- D. If neither conclusion I nor II is true
- E. If both conclusions I and II are true

(2). **Statements:** $A > B = C \geq D, V \geq G \leq H = D$

Conclusion: I. $C \geq D$ II. $A > H$ III. $B \geq G$ IV. $C < V$

- A. Only I and II are true
- B. Only III and IV are true
- C. Only I, II and III are true
- D. All I, II and III are true
- E. None of these

(3). **Statements:** $M \leq N < L \geq Q, R > T \geq Q$

Conclusions: I. $R \geq L$ II. $T \leq N$ III. $L > M$ IV. $R \geq M$

- A. Only III and IV are true
- B. Only III is true
- C. Only I and IV are true

- D. All I, II, III and IV are true
- E. None of these

(4). **Statement:** $M \geq P < H, V > T = M$

Conclusions: I. $V > P$ II. $T \geq H$

- A. If only conclusion I is true
- B. If only conclusion II is true
- C. If either conclusion I or II is true
- D. If neither conclusion I nor II is true
- E. If both conclusions I and II are true

(5). **Statements:** $E = G \geq H = N, C > F \geq M = N$

Conclusions: I. $F \geq E$ II. $E \geq M$ III. $C \geq G$ IV. $C > H$

- A. Only I and III are true
- B. All I, II, III and IV are true
- C. Only II and IV are true
- D. Only II is true
- E. None of these

(6). **Statements:** $R \geq T = Q < M, S \geq R, S = L > Z$

Conclusions: I. $Z < R$ II. $S \geq Q$ III. $M > T$ IV. $L \geq Q$

- A. Only II, III and IV are true
- B. Only I, III and IV are true
- C. Only I and II are true
- D. Only II and IV are true
- E. None of these

(7). **Statements:** $S \leq L \leq I = P > E > R; L > Q$

Conclusions: I. $P \geq S$ II. $I > R$

- A. Only Conclusion I is true
- B. Either Conclusion I or II is true
- C. Only Conclusion II is true



- D. Both Conclusion I and II are true
- E. Neither conclusion I nor II is true

(8). Statements: $G > R \geq E = A \leq T \leq S; D \leq A \leq J$

Conclusions: I. $T \geq D$ II. $R > S$

- A. Only Conclusion II is true
- B. Neither conclusion I nor II is true
- C. Only conclusion I is true
- D. Either conclusion I or II is true
- E. Both conclusion I or II are true

(9) Statements: $A \geq B > C \leq D \leq E < F$

Conclusions: I. $A \geq E$ II. $C < F$

- A. Only conclusion I is true
- B. Either conclusion I or II is true
- C. Neither conclusion I nor II is true
- D. Only conclusion II is true
- E. Both conclusion I and II are true

(10). Statements: $S < L < I = P \geq E > R; L > Q$

Conclusions I. $L < R$ II. $E \geq Q$

- A. Both conclusion I and II are true
- B. Neither conclusion I nor II is true
- C. Either conclusion I or II is true
- D. Only conclusion II is true
- E. Only conclusion I is true

Correct answer:

1	2	3	4	5	6	7	8	9	10
A	C	B	A	C	A	D	C	D	B

Explanations:

(1).

Given statement:

$$M \geq P < H \dots\dots (i)$$

$$V > T = M \dots\dots (ii)$$

Combining all statements, we get

$$V > T = M \geq P < H$$

Thus, $V > P$ is true.

Again, $T \geq H$ is not true.

(2).

Given statements

$$A > B = C \geq D \dots\dots(i)$$

$$V \geq G \leq H = D \dots\dots(ii)$$

Combining both statement, we get

$$A > B = C \geq D = H \geq G \leq V$$



Thus, $C \geq G$ is true.

$A > H$ is true. $B \geq G$ is true. $C < V$ is not true.

Hence, only I, II and III are true.

(3).

Given statements

$$M \leq N < L \geq Q \dots\dots(i)$$

$$R > T \geq Q \dots\dots(ii)$$

Combining both the statements, we get

$$M \leq N < L \geq Q \leq T < R$$

Thus, $R \geq L$ is not true.

$T \leq N$ is not true.

Again, $M < L$ or $L > M$ is true.

$R \geq M$ is not true.

Hence, only conclusion III is true.

(4).

Given statement:

$$M \geq P < H \dots\dots (i)$$



$$V > T = M \dots\dots (ii)$$

Combining all statements, we get

$$V > T = M \geq P < H$$

Thus, $V > P$ is true.

Again, $T \geq H$ is not true.

(5).

Given statements

$$E = G \geq H = N \dots\dots(i)$$

$$C > F \geq M = N \dots\dots(ii)$$

Combining both the statements, we get

$$E = G \geq H = N = M \leq F < C$$

Thus, $F \geq E$ is not true.

$E \geq M$ is true.

$C \geq G$ is not true.

$C > H$ or $H < C$ is true. Hence, only II and IV are true.

(6).

Given statement

$$R \geq T = Q < M \dots\dots(i)$$

$$S \geq R \dots\dots(ii)$$

$$S = L > Z \dots\dots(iii)$$

Combining all the statements, we get

$$Z < L = S \geq R \geq T = Q < M$$

Thus, $Z < R$ is not true.

$S \geq Q$ is true.

$M > T$ is true.

$L \geq Q$ is true.

(7).

Given statements:

$$S \leq L \leq I = P > E > R \dots(i)$$

$$L > Q \dots(ii)$$

Check conclusion I:

From P to S
←
 $S \leq L \leq I = P > E > R$
Common sign is \geq
 $\therefore P \geq S$

Check conclusion II:



$$S \leq L \leq \overbrace{I = P > E > R}^{\text{From I to R}}$$

Common sign is >
 $\therefore I > R$

Hence, both conclusion I and II are true.

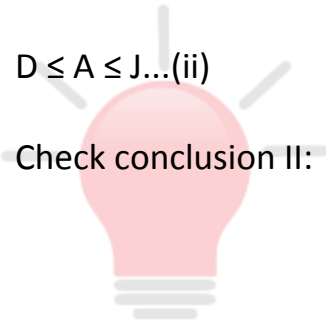
(8).

Given statements:

$$G > R \geq E = A \leq T \leq S \dots(i)$$

$$D \leq A \leq J \dots(ii)$$

Check conclusion II:



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$$G > \overbrace{R \geq E = A \leq T \leq S}^{\text{From R to S}}$$

Can't be compared

Hence, II is not true.

Now, Combining (I) and (II), we get

$$D \leq A \leq T$$

Check conclusion I:

From T to D
 \longleftarrow
 $D \leq A \leq T$

 Common sign is \geq
 $\therefore T \geq D$

Hence, I is true.

(9).

Given statement: $A \geq B > C \leq D \leq E < F$

Check conclusion I:



Check conclusion II

From A to E
 \longrightarrow
 $A \geq B > C \leq D \leq E < F$

 Can't be compared

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From C to F
 \longrightarrow
 $A \geq B > C \leq D \leq E < F$

 Common sign is $<$
 $\therefore C < F$

Hence, II is true.

(10).

Given statements:

$S < L < I = P \geq E > R \dots(i)$

$L > Q \dots(ii)$

Combining (i) and (ii), we get

$Q < L < I = P \geq E$

Check conclusion I:

$\xrightarrow{\text{From L to R}}$
 $S < \underbrace{L < I = P \geq E}_{\text{Can't be compared}} > R$

Check conclusion II:



$\xleftarrow{\text{From E to Q}}$
 $Q < \underbrace{L < I = P \leq E}_{\text{Can't be compared}}$

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Hence, neither I nor II is true.



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