



Inequality (Symbols)

Solution

1. Answer: (C)

Given statement: $R = Y = P > S \ge H < F \le C$

I. $R > M \rightarrow False$ (as $R = Y = P > S \ge H < F$ < C = M)

II. $H = M \rightarrow False$ (as $H < F \le C = M$)

Thus, None follows is the correct answer.

2. Answer: (D)

Given statement: $B = K \ge H = T > U \le I$

I. $H > I \rightarrow False$ (as $H = T > U \le I$)

II. $H \le I \rightarrow False$ (as $H = T > U \le I$)

Conclusion I and II is false and it makes complementary form for either or,

Thus, Either conclusion I or II follow.

Additional Information

Signs between H and I are the opposite, but all three signs are present between H and I, leading to false conclusion so Either or conclusion will be true.

3. Answer: (A)

Given statement: $A > G < T < U \le W = P > V$

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I. $A < P \rightarrow False$ (as $A > G < T < U \le W = P > Y$ as, the signs are opposite so, definite relation between the A and P cannot be determined)

II. $T < Y \rightarrow$ False (as $T < U \le W = P > Y$ as, the signs are opposite so, definite relation between the T and Y cannot be determined) Thus, neither conclusion I nor II follows

4. Answer: (B)

Given **Statements:** $D < E \le F$, $G > H \ge I > F$

On combining: $D \le E \le F \le I \le H \le G$

Conclusions:

I. $E \le H \rightarrow False$ (as $E \le F < I \le H \rightarrow E < H$)

II. $H > D \rightarrow True$ (as $D < E \le F < I \le H \rightarrow D < H$)

Hence, only II is true.

5. Answer: (D)

Given **Statements:** $M \ge B \ge N = Z > X \le R$ > S

Conclusions:

I. $M > X \rightarrow True$ (as $M \ge B \ge N = Z > X \rightarrow M > X)$

II. $N > S \rightarrow False$ (as $N = Z > X \le R > S \rightarrow Relation between N and S cannot be determined)$

Hence, only I is true.

6. Answer: (D)

Given **Statements:** $M > N \ge O = P \le Q < R$ > S

Conclusion:

I. $M > P \rightarrow True (as M > N \ge O = P \rightarrow M > P)$

II. $O < R \rightarrow True$ (as $O = P \le Q < R \rightarrow O < R$)

Hence, both I and II are true.

7. **Answer:** (B)

Given **Statement:** $X > Z < Y \le V$; P > K > S = Q > V

On Combining: $P > K > S = Q \ge V \ge Y > Z < X$

Conclusion:

I) $K > X \rightarrow False$ (As $K > S = Q \ge V \ge Y > Z < X \rightarrow$ so, no direct relation between **K** and **X** can be determined)

II) $Y < P \rightarrow True$ (As $P > K > S = Q \ge V \ge Y \rightarrow so P > Y)$

Hence, Only II is true.

8. **Answer: (D)**

Given statements: $U \le W \ge R > S$; T > S = V

on combining: $U \le W \ge R > S = V < T$

Conclusions:

I. $W < V \rightarrow False$ (as $W \ge R > S = V$) it is clear that W is greater than V

II. $T < V \rightarrow False$ (as S = V < T) V is shorter than T



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conclusion none of the follows therefore **Neither I nor** true **Confusion Points**

both statements follow the not given statement as per statement $W \ge R >$ S = V it is clear W > V while in conclusion it is given

W < V so it is false.

similarly $S = V < T \rightarrow V < T$ but in conclusion it is T < V so it is false therefore None is true.

9. Answer: (B)

Given statements: $P \ge Q = R \ge N < S$ **Conclusions:**

I) $S > Q \rightarrow False$ (as $Q = R \ge N < S \rightarrow$ relation between S and Q cannot be determined)

II) $P \ge N \rightarrow True$ (as $P \ge Q = R \ge N \rightarrow P \ge$

Hence, Only conclusion II follows.

10. Answer: (B)

Given statements: F = L; K < L; $K \ge D$; M <D

On combining: $F = L > K \ge D > M$

Conclusions:

II. $L > D \rightarrow True (as L > K \ge D \rightarrow L > D)$ Hence, only II is True.

11. Answer: (E)

Given statements: H = G > F; $A < B \ge X$; B

On combining: $H = G > F \ge B > A$; H = G > $F \ge B \ge X$

Conclusions:

I. $H \ge A \rightarrow False$ (as $H = G > F \ge B > A \rightarrow$

II. $X < F \rightarrow False$ (as $F \ge B \ge X \rightarrow F \ge X$) Hence, neither I nor II is True.

12. Answer: (C)

> Given statements: $A > B \ge C$; $E = D \le C$ On combining: $A > B \ge C \ge D = E$

Conclusions:

I. $B \ge D \rightarrow True (as B \ge C \ge D \rightarrow B \ge D)$

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II. $A > E \rightarrow True$ (as $A > B \ge C \ge D = E \rightarrow$ A > E

Therefore, both conclusion I and II are True.

13. Answer: (C)

> Given statements: $Q \le A < D < K \le M = J =$ F > Z

Conclusions:

I. $K > O \rightarrow True$ (as $O \le A < D < K \le M = J$ $= F > Z \rightarrow K > O)$

II. $F \ge K \rightarrow True$ (as $Q \le A < D < K \le M =$ $J = F > Z \rightarrow F > K$

Therefore, both I and II are true.

14. Answer: (E)

Given statements: $P = Q \le R$; T = P; T > SOn combining: $S < P = O = T \le R$ I. $Q < S \rightarrow False$ (as S < P = Q) II. $R < S \rightarrow False (as S < T \le R)$ Therefore none follows.

15. Answer: (C)

Given statements: C > W; G < N; W = T; N

On combining: $C > W = T \ge N > G$

Conclusions:

I. $C > G \rightarrow True$ (as $C > W = T \ge N > G \rightarrow$ C > G)

I. $F \ge M \rightarrow False$ (as $F = L > K \ge D > M \rightarrow II.$ $W \ge N \rightarrow True$ (as $W = T \ge N \rightarrow W \ge N$) Hence, both I and II is True.

> 16. Answer: (A)

> > Given statement: $A < B \ge C$; D > E > A; C =F > G

On combining: $D > E > A < B \ge C = F > G$ Conclusion:

I. $D \ge C \rightarrow False$ (as $D > E \rightarrow E > A \rightarrow A <$ $B \rightarrow B \ge C$) thus clear relation between D and C cannot be determined, It has no common sign between them.

II. $B > G \rightarrow True$ (as $B \ge C \rightarrow C = F \rightarrow F >$ $G \rightarrow B > G$)

Therefore, only conclusion **II** is true.

17. Answer: (B)

Given Statements: A > B = C, D < M, $M \le$

On combining: $A > B = C \ge M > D$

Conclusions: I. $B > M \rightarrow False$ (as $B = C \ge$ $M \rightarrow B \ge M$)



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II. $D < A \rightarrow True (as A > B = C \ge M > D \rightarrow A > D)$

Hence, only II is true.

18. Answer: (D)

Given statements: $Y = O \le G \le K = U > L > P$; Y = A > R

On combining: $R \le A = Y = O \le G \le K = U$ > L > P

Conclusions:

I. $U > R \rightarrow False$ (as $R \le A = Y = O \le G \le K = U \rightarrow U \ge R$)

II. $R = U \rightarrow False$ (as $R \le A = Y = O \le G \le K = U \rightarrow U \ge R$)

Therefore, conclusion I and II forms a complementary pair.

Hence, Either I or II is True.

19. **Answer: (C)**

Given statement: $L > B < J \le Q$; T = O < L; P = Q

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On combining: $T = O < L > B < J \le Q = P$ Conclusion:

I. $T < L \rightarrow True$ (as $T = O \rightarrow O < L \rightarrow T < L$)

II. $P \ge J \rightarrow True$ (as $J \le Q \rightarrow Q = P \rightarrow P \ge J$)

Therefore, both conclusions ${\bf I}$ and ${\bf II}$ are true.

20. Answer: (B)

Given statements: $R \le P \le Q$; $R \ge S > T \le M$ = U

On combining: $Q \ge P \ge R \ge S > T \le M = U$ Conclusions:

I. $Q > T \rightarrow True (as Q \ge P \ge R \ge S > T \rightarrow Q > T)$

II. $R \ge M \rightarrow False$ (as $R \ge S > T \le M \rightarrow clear$ relation between R and M cannot be determined)

Hence, Only I is True.

