

Reasoning Inequality

Questions & Answers

Support Us & get more exam wise free study material, videos, pdfs, current affairs, job alerts, results join our complete exam wise social network from below links :-

TELEGRAM OFFICIAL CHANNEL	Telegram.me/ExamsCart
FACEBOOK OFFICIAL PAGE	FB.com/ExamsCartOfficial
TWITTER OFFICIAL HANDLE	Twitter.com/Exams_Cart
INSTAGRAM OFFICIAL PAGE	Instagram.com/Exams_Cart
YOUTUBE OFFICIAL CHANNEL	https://www.youtube.com/channel/UCYar18Ja2briD8tBOmk5Nsw?sub_confirmation=1


Please Subscribe, Join & Like Our Above Social Network.

**Free Current Affairs Daily, Monthly, Yearly Pdfs, GK
Tricks, General Studies Free PDFs**

[Click Here To Download](#)



Govt Exams ? Crack with Us...




Click Here To Free Download NOW

**CURRENT
AFFAIRS**

GK GS

#Daily Updated



**Go to Google Play
Store Type
"ExamsCart"
Download Our App**

Make In India App 2020
Support Us!!

Vocal For Local

- Daily Current Affairs
- GK Tricks for Exams
- Monthly Current Affairs
- Current Affairs Quiz
- Gk Capsules
- Short Tricks

- Economy
- History
- Geography
- Polity
- General Awareness
- Art & Culture

INEQUALITY QUESTIONS

1. **Statements:** $A \geq B$; $C > G$; $A \geq H$; $B \geq C$; $I = B$

Conclusions:

I. $C > H$

II. $H > B$

III. $B > G$

IV. $I > A$

A. Only I is true

B. Only II is true

C. Either I or II true

D. Neither I nor II is true

E. Only III is true

Answer & Explanation

Answer – E. Only III is true

2. **Statements:** $A=B$; $C \leq F$; $G > C$; $B < F$

Conclusions:

I. $F < B$

II. $F > G$

III. $A > G$

IV. $A > C$

A. Only II is true

B. None is true

C. Only I and II are true

D. Only II and III are true

E. Only IV is true

Answer & Explanation

Answer – B. None is true

3. **Statements:** $A \leq H$, $G \geq H$; $G > M$; $O \leq M$

Conclusions:

I. $G \geq A$

II. $G \geq O$

III. $H > M$

IV. $H \leq G$

A. Only I, II and III are true

B. Only II is true

C. Only IV is true

D. Only I and IV are true

E. None is true

Answer & Explanation

Answer – D. Only I and IV are true

4. Statement : $P \geq Q > R < S \leq T$

Conclusion:

I. $T > R$

II. $T > Q$

III. $R < P$

IV. $Q > P$

A. Only I is true

B. Only II is true

C. Only I and III are true

D. Only I and IV are true

E. All I, II, III and IV are true

Answer & Explanation

Answer – C. Only I and III are true

5. Statement : $P < Q \geq R > S \leq T$

Conclusion:

I. $T \geq R$

II. $P < R$

III. $Q > S$

IV. $S < P$

A. Only I is true

B. Only III is true

C. Only II is true

D. Only IV is true

E. Both I and II are true

Answer & Explanation

Answer – B. Only III is true

6. Statements: $M < N \leq O = P$; $N = Q$ Conclusions: i. $P > M$, ii. $Q \leq O$

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 are true

Answer & Explanation

Answer – E. Both I and II are true

7. Statements: $A > N = I \geq W < O \leq P$; $O > S$; $T < N$

Conclusions: i. $P > S$, ii. $A < W$

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 are true

Answer & Explanation

Answer – A. Only I is true

8. Statements: $M \geq N \geq O > P \leq Q \leq R$

Conclusions: i. $M > Q$, ii. $N \leq R$

- 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 are true

Answer & Explanation

Answer – D. Neither I nor II is true

9. Statements: $M < P \leq G = F \geq B$; $H \geq F < I$; $J \geq P$

Conclusions: $P \leq B$, $M < H$

- 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 are true

Answer & Explanation

Answer – B. Only II is true

10. Statements: $M < P \leq G = F \geq B$; $H \geq F < I$; $J \geq P$

Conclusions: $H \geq J$, $B < I$

- 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 are true

Answer & Explanation

Answer – B. Only II is true

Direction(1-5): Study the following information to answer the given questions

A\$B means A is not smaller than B

A@B means A is neither smaller than nor equal to B

A#B means A is neither greater than nor equal to B

A&B means A is neither greater than nor smaller than B

A*B means A is not greater than B

1. Statements: $O \& A$, $A \$ R$, $R \# S$, $S * Q$

Conclusions:

I. $Q @ R$

II. $S @ O$

III. $R \& O$

IV. $R \# O$

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

- D. Either III or IV is true
E. Either III or IV and I are true

Answer

Answer – E. Either III or IV and I are true

2. **Statements:** A * E, E \$ F, F # O, O @ L

Conclusions:

I. L # F

II. E @ O

III. A # O

IV. E @ L

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

Answer

Answer – A. None is true

3. **Statements:** B @ Q, Q # A, A & L, L * N

Conclusions:

I. N \$ A

II. L @ Q

III. B @ N

IV. Q # N

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

Answer

Answer – B. I, II and IV are true

4. **Statements:** E # M, M * N, N @ O, O \$ P

Conclusions:

I. P # M

II. P # N

III. M # O

IV. N @ E

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

Answer

Answer – D. II, and IV are true

5. **Statements:** $A \$ E, E @ F, F * G, G \# H$

Conclusions:

I. $H @ E$

II. $A \$ G$

III. $E @ H$

IV. $A @ F$

A. None is true

B. Only I is true

C. Only II is true

D. Only III is true

E. Only IV is true

Answer

Answer – E. Only IV is true

Directions (Q.No – 6-10) In these questions, relationships between different elements is shown in the statements. These statements are followed by two conclusions.

Give Answer

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 or II follow

6. **Statement:** $B \geq E < N < Q < R = S$

Conclusions:

I. $S > E$

II. $Q < B$

Answer

Answer – A. If only Conclusion I follows

7. **Statement:** $P \geq Q > R < E = G > N$

Conclusions:

I. $P > G$

II. $R > N$

Answer

Answer – D. If neither Conclusion I nor II follows

8. **Statement:** $A > S > P > O = E$

Conclusions:

I. $P \geq E$

II. $S > E$

Answer

Answer – B. If only Conclusion II follows

9. **Statement:** $A=B \geq C, D < C$

Conclusions:

- I. $A \geq D$
- II. $B > D$

Answer

Answer – **B.** If only Conclusion II follows

10. **Statement:** $P \geq R < Q = D > E > O$

Conclusions:

- I. $P > E$
- II. $Q > O$

Answer

Answer – **B.** If only Conclusion II follows

1. In which of these expressions ' $U > W$ ' be definitely false?

- ☐ A. $U > P \geq Q = G \geq R > W$
- ☐ B. $P < A \leq U \leq T; W \geq O > T$
- C. $W \leq A \leq L = R < U$
- D. $U > C > = F \leq H; W < F$
- E. $U > T = O \geq P; W < J = P$

Answer & Explanation

Answer – **B.** $P < A \leq U \leq T; W \geq O > T$

2. 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 ' $N \geq Q$ ' as well as ' $Q \leq M$ ' definitely holds true? $M _ N _ P _ Q _ R$

- A. $>, \geq, <, =$
- B. $>, >, \geq, <$
- C. \geq, \geq, \leq, \leq
- D. $\geq, =, \geq, <$
- E. Other than those given as options

Answer & Explanation

Answer – **D.** $\geq, =, \geq, <$

3. In Which of the following expressions does the expression ' $D = V$ ' to definitely hold true?

- A. $K \geq D \leq R = P < S \leq V$
- B. $U \geq V \geq M = F \leq A \geq D$
- C. $D \geq C > Q \geq B = N \leq V$
- D. $G \geq D = A < B \leq S \leq V$
- E. $V \geq E = G \geq W = Y \geq D$

Answer & Explanation

Answer – **E.** $V \geq E = G \geq W = Y \geq D$

4. Which of the following expressions is true if the expression $P < T < = B > S > M > = A$ is definitely true?

- A. $A \leq P$
- B. $S < P$
- C. $M > P$
- D. $A < B$
- E. $T \leq M$

Answer & ExplanationAnswer – D. $A < B$

5. In which of these expressions ' $S > V$ ' and ' $V > B$ ' be definitely false?

- A. $S > P \geq Q = G \geq R > V > B$
- B. $P < A \leq S \leq T; V \geq O > T < B$
- C. $B > V \leq A \leq L = R < S$
- D. $S > C \geq F \leq H; B > V < F$
- E. $S > T = O \geq P; B < V < J = P$

Answer & ExplanationAnswer – B. $P < A \leq S \leq T; V \geq O > T < B$

6. 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 ' $B > S$ ' as well as ' $E \leq F$ ' definitely holds true? B _ A _ S _ E _ D _ F _ G

- A. $>, \geq, <, =, <, <$
- B. $>, >, \geq, <, >, =$
- C. $\geq, \geq, \geq, \leq, >, >$
- D. $>, =, \geq, =, \leq, =$
- E. Other than those given as options

Answer & ExplanationAnswer – D. $>, =, \geq, =, \leq, =$

7. In Which of the following expressions does the expression ' $L = T$ ' and " $E \geq W$ " to definitely hold true?

- A. $E \geq W \leq R = P < S \leq T$
- B. $U \geq T \geq M = W \leq E \geq L$
- C. $L \geq C > E \geq W = N \leq T$
- D. $E \geq W = A < B \leq S \leq T$
- E. $T \geq E = G \geq W = Y \geq L$

Answer & ExplanationAnswer – E. $T \geq E = G \geq W = Y \geq L$

8. Which of the following expressions is true if the expression $P < T \leq Q \geq R \geq S > M \geq W > A = R$ is definitely true?

- A. $W \leq P$
- B. $S < P$
- C. $M < R$
- D. $W > Q$
- E. $T \leq M$

Answer & ExplanationAnswer – C. $M < R$ 9. In which of these expressions ' $P > R$ ' and ' $P = R$ ' be definitely true?

- A. $S > P \geq Q = G \geq R > V$
 B. $P < A \leq S \leq T < R; V \geq O > T$
 C. $V \leq A \leq L = R < S = P$
 D. $P > S > C > F \leq H; V < F < R$
 E. $S > T = O \geq P; V < J = P > R$

Answer & ExplanationAnswer – A. $S > P \geq Q = G \geq R > V$ 10. In which of these expressions ' $T > P$ ' and ' $T = P$ ' be definitely false?

- A. $T \geq S > P \geq Q = G \geq R > V$
 B. $P < A \leq S \leq T; V \geq O > T$
 C. $V \leq A \leq L = R < S$
 D. $S > C > F \leq H = P \leq Q = T; V < F$
 E. $S > T = O \geq P; V < J = P$

Answer & ExplanationAnswer – B. $P < A \leq S \leq T; V \geq O > T$ • In which of these expressions ' $I > K$ ' be definitely false?

- A. $I > P \geq Q = G \geq R > K$
 B. $P < A \leq I \leq T; K \geq O > T$
 C. $K \leq A \leq L = R < I$
 D. $I > C > F \leq H; K < F$
 E. $I > T = O \geq P; K < J = P$

Answer & ExplanationAnswer – B. $P < A \leq I \leq T; K \geq O > T$

• 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 ' $F > N$ ' as well as ' $N \leq B$ ' definitely holds true? B _ A _ N _ E _ F

- A. $>, \geq, <, =$
 B. $>, >, \geq, <$
 C. \geq, \geq, \geq, \leq
 D. $\geq, =, \leq, <$
 E. Other than those given as options

Answer & ExplanationAnswer – D. $\geq, =, \leq, <$ • In Which of the following expressions does the expression ' $I \geq D$ ' to definitely hold true?

- A. $K \geq I \leq R = P < S \leq D$
 B. $U \geq D \geq M = F \leq A \geq I$
 C. $I \geq C \geq Q \geq B = N \geq D$
 D. $G \geq I = A < B \leq S \leq D$
 E. $D \geq E = G \geq W = Y \geq I$

Answer & ExplanationAnswer – C. $I \geq C \geq Q \geq B = N \geq D$

• Which of the following expressions is true if the expression $P < T \leq B > S > M \geq E$ is definitely true?

- A. $E \leq P$
- B. $S < P$
- C. $M > P$
- D. $E < S$
- E. $T \leq M$

Answer & Explanation

Answer – D. $E < S$

• **Statements:** $Y \leq K < D = S$; $D < B < O$; $A \geq D < Z$

Conclusions: i. $A > B$, ii. $Y < Z$

- 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 are true

Answer & Explanation

Answer – B. Only II is true

• **Statements:** $H < L \leq I = K$; $L = B$ **Conclusions:** i. $K > H$, ii. $B \leq I$

- 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 are true

Answer & Explanation

Answer – E. Both I and II are true

• **Statements:** $A > Z = R \geq N < J \leq E$; $J > F$; $K < Z$

Conclusions: i. $E > F$, ii. $A < N$

- 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 are true

Answer & Explanation

Answer – A. Only I is true

• **Statements:** $U \geq J \geq S > C \leq B \leq M$

Conclusions: i. $U > B$, ii. $J \leq M$

- 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 are true

Answer & Explanation

Answer – D. Neither I nor II is true

• **Statements:** $G < S \leq A = N \geq B$; $F \geq N < O$; $D \geq S$

Conclusions: $S \leq B$, $G < F$

- 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 are true

Answer & ExplanationAnswer – **B. Only II is true**• **Statements:** $C < L \leq A = N \geq G$; $R \geq N < S$; $F \geq L$ **Conclusions:** $R \geq F$, $G < S$

- 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 are true

Answer & ExplanationAnswer – **B. Only II is true**1. **Statements:** $D \geq E$; $F > M$; $D \geq O$; $E \geq F$; $N = E$ **Conclusions:****I. $F > O$** **II. $O > E$** **III. $E > M$** **IV. $N > D$**

- ☐ A. Only I is true
☐ B. Only II is true
C. Either I or II true
D. Neither I nor II is true
E. Only III is true

Answer & ExplanationAnswer – **E. Only III is true**2. **Statements:** $P = Q$; $R \leq D$; $E > R$; $Q < D$ **Conclusions:****I. $D < Q$** **II. $D > E$** **III. $P > E$** **IV. $P > R$**

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

Answer & ExplanationAnswer – **B. None is true**3. **Statements:** $B \leq P$, $E \geq P$; $E > Q$; $L \leq Q$ **Conclusions:****I. $E \geq B$** **II. $E \geq L$** **III. $P > Q$** **IV. $B \leq E$**

- A. Only I, II and III are true
B. Only II is true

- C. Only IV is true
- D. Only I and IV are true
- E. None is true

Answer & Explanation

Answer – **D. Only I and IV are true**

4. Statement : $A \geq N > M < B \leq L$

Conclusion:

I. $L > M$

II. $L > N$

III. $M < A$

IV. $B > A$

A. Only I is true

B. Only II is true

C. Only I and III are true

D. Only I and IV are true

E. All I, II, III and IV are true

Answer & Explanation

Answer – **C. Only I and III are true**

5. Statement : $B < A \geq W > V \leq X$

Conclusion:

I. $X \geq W$

II. $B < W$

III. $A > V$

IV. $V < B$

A. Only I is true

B. Only III is true

C. Only II is true

D. Only IV is true

E. Both I and II are true

Answer & Explanation

Answer – **B. Only III is true**

6. Statement: $P \geq M > F < A = B > Q$

Conclusions:

I. $P > B$

II. $F > Q$

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 or II follow

Answer & Explanation

Answer – **D. If neither Conclusion I nor II follows**

7. Statement: $B \geq D < M < P < A = E$

Conclusions:

I. $E > D$

II. $P < B$

- 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 or II follow

Answer & Explanation

Answer – A. If only Conclusion I follows

8. Statement: $A > T > Q > R = E$

Conclusions:

I. $Q \geq E$

II. $T > E$

- 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 or II follow

Answer & Explanation

Answer – B. If only Conclusion II follows

9. Statement: $S = R \geq A, P < A$

Conclusions:

I. $S \geq P$

II. $R > P$

- A. If only Conclusion II follows
- B. If only Conclusion I follows
- C. If either Conclusion I or II follows
- D. If neither Conclusion I nor II follows
- E. If both Conclusions I or II follow

Answer & Explanation

Answer – A. If only Conclusion II follows

10. Statement: $A \geq M < Y = Z > F > B$

Conclusions:

I. $A > F$

II. $Y > B$

- 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 or II follow

Answer & Explanation

Answer – B. If only Conclusion II follows

•

In which of these expressions 'B > E' be definitely false?

- A. $B > P \geq Q = G \geq R > E$
- B. $P < A \leq B \leq T; E \geq O > T$
- C. $E \leq A \leq L = R < B$
- D. $B > C \geq F \leq H; E < F$
- E. $B > T = O \geq P; E < J = P$

Answer & Explanation

Answer – B. $P < A \leq B \leq T; E \geq O > T$

• 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 'O > N' as well as 'G ≤ M' definitely holds true? M _ A _ N _ G _ O

- A. >, ≥, <, =
- B. >, >, ≥, <
- C. ≥, ≥, ≥, ≤
- D. ≥, =, ≥, <
- E. Other than those given as options

Answer & Explanation

Answer – D. ≥, =, ≥, <

• In Which of the following expressions does the expression 'Z ≥ D' to definitely hold true?

- A. $K \geq Z \leq R = P < S \leq D$
- B. $U \geq D \geq M = F \leq A \geq Z$
- C. $Z \geq C > Q \geq B = N \geq D$
- D. $G \geq Z = A < B \leq S \leq D$
- E. $D \geq E = G \geq W = Y \geq Z$

Answer & Explanation

Answer – C. $Z \geq C > Q \geq B = N \geq D$

• Which of the following expressions is true if the expression $P < T \leq B > S > M \geq A$ is definitely true?

- A. $A \leq P$
- B. $S < P$
- C. $M > P$
- D. $A < B$
- E. $T \leq M$

Answer & Explanation

Answer – D. $A < B$

• Statements: $Y \leq K < D = S; D < B < O; A \geq D < Z$

Conclusions: i. $A > B$, ii. $Y < Z$

- 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 are true

Answer & Explanation

Answer – B. Only II is true

• Statements: $G < L \leq F = E; L = A$ Conclusions: i. $E > G$, ii. $A \leq F$

- 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 are true

Answer & Explanation

Answer – E. Both I and II are true

• **Statements:** $B > Z = R \geq M < J \leq Y$; $J > Q$; $K < Z$

Conclusions: i. $Y > Q$, ii. $B < M$

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 are true

Answer & Explanation

Answer – A. Only I is true

• **Statements:** $V \geq I \geq S > C \leq A \leq L$

Conclusions: i. $V > A$, ii. $I \leq L$

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 are true

Answer & Explanation

Answer – D. Neither I nor II is true

• **Statements:** $C < L \leq A = N \geq E$; $Q \geq N < O$; $D \geq L$

Conclusions: $L \leq E$, $C < Q$

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 are true

Answer & Explanation

Answer – B. Only II is true

• **Statements:** $C < L \leq A = N \geq E$; $Q \geq N < O$; $D \geq L$

Conclusions: $Q \geq D$, $E < O$

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 are true

Answer & Explanation

Answer – B. Only II is true

•

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

Conclusions:

I. $F > C$

II. $C > E$

III. $E > A$

IV. $B > D$

A. Only I is true

B. Only II is true

C. Either I or II true

D. Neither I nor II is true

E. Only III is true

Answer & Explanation

Answer – E. Only III is true

• **Statements:** $A \geq B$; $C = B$; $E > F$; $A \leq D$; $B \geq F$

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. II and III are true

D. Either I or II true

E. I and II are true

Answer & Explanation

Answer – C. II and III are true

• **Statements:** $A > E$; $K \geq M$; $E \leq L$; $L = K$; $G < L$

Conclusions:

I. $A \geq M$

II. $M \leq L$

III. $K \leq A$

IV. $A < L$

A. Only I is true

B. Only II is true

C. Either I or II true

D. Neither I nor II is true

E. III and IV are true

Answer & Explanation

Answer – B. Only II is true

• **Statements:** $I = K$; $M \leq O$; $Q > M$; $K < O$

Conclusions:

I. $O < K$

II. $O > Q$

III. $I > Q$

IV. $I > M$

A. Only IV is true

B. Only II is true

C. Only I and II are true

D. Only II and III are true

E. None is true

Answer & Explanation

Answer – E. None is true

• **Statements:** $C \geq A$; $E = G$; $K < I$; $C < E$; $C < M$; $G \geq I$

Conclusions:

I. $G < K$

II. $A \geq E$

III. $I < M$

IV. $A < E$

A. Only I is true

- B. Only IV is true
- C. Only III is true
- D. None is true
- E. All are true

Answer & Explanation

Answer – B. Only IV is true

- **Statements:** $S = T$; $U < O$; $S \leq U$; $P \geq Q$; $Q > T$

Conclusions:

I. $P > S$

II. $Q > S$

III. $O > T$

IV. $T \leq U$

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

Answer & Explanation

Answer – D. All are true

- **Statements:** $A > C$; $G > E$; $G \leq C$; $R \leq I$; $K \leq I$

Conclusions:

I. $A > G$

II. $C > E$

III. $I \geq K$

IV. $C \leq K$

- A. Only I, II and III are true
- B. Only II is true
- C. Only I, II and IV are true
- D. Neither I nor II is true
- E. None is true

Answer & Explanation

Answer – A. Only I, II and III are true

- **Statements:** $M \leq Q$, $O \geq Q$; $O > R$; $P \leq R$

Conclusions:

I. $O \geq M$

II. $O \geq P$

III. $Q > R$

IV. $M \geq O$

- A. Only I, II and III are true
- B. Only II is true
- C. Only I is true
- D. Neither I nor II is true
- E. None is true

Answer & Explanation

Answer – C. Only I is true

- **Statements:** $B < D$; $D \leq E$; $E = S$; $S \geq T$; $U \geq S$; $S < V$

Conclusions:

i. $B \leq T$

ii. $B < U$

iii. $U \leq S$

iv. $T < V$

- A. Only I, II and III are true
- B. Only II is true
- C. Only II and IV are true
- D. Neither I nor II is true
- E. None is true

Answer & Explanation

Answer – C. Only II and IV are true

- **Statements:** $A \leq C$; $F > H$; $H = A$; $J > L$; $L \geq F$

Conclusions:

- I. $J > A$
- II. $C = H$
- III. $H < C$
- IV. $L < H$
- 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

Answer & Explanation

Answer – D. Either II or III and I are true

- **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

Answer & Explanation

Answer – D. Only IV is true

Explanation :

$$S \geq U > Q \geq R < P = O \geq T$$

- **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

Answer & Explanation

Answer – B. Only II is true

Explanation :

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

- **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 II is true
 C. None is true
 D. Either I or IV and II are true
 E. All are true

Answer & Explanation

Answer – **D. Either I or IV and II are true**

Explanation :

$$O = R \leq M < N = P > I$$

- **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

Answer & Explanation

Answer – **C. Only III true**

Explanation :

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

- **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

Answer & Explanation

Answer – **D. Either III or IV and II are true**

Explanation :

$$H = K \leq N = F > G \leq J < I$$

- **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

Answer & Explanation

Answer – **D. Only II and IV are true**

Explanation :

$$D < A = K > N$$

$$L > A = K \geq M$$

- **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

Answer & Explanation

Answer – E. All are true

Explanation :

$$X > S = T = W > O$$

$$X > S = T \leq U \leq V < Z = Y$$

- **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

Answer & Explanation

Answer – B. Only I and III are true

Explanation :

$$A \geq Q = B \geq T < H \geq F$$

$$F \leq H \geq T > K = G$$

$$A \geq Q = B \geq T > K = G$$

- **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

Answer & Explanation

Answer – D. All of these

Explanation :

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

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

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

- **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

Answer & Explanation

Answer – A. \leq, \leq

Explanation :

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

1.

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

Answer & Explanation

Answer – D. Either II or III and I are true

Explanation:

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

2. 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

Answer & Explanation

Answer – C. Only II, III and IV are true

Explanation:

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

3. 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

Answer & Explanation

Answer – D. II and III are true

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

4. 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

Answer & Explanation

Answer – B. Only I is true

Explanation:

$T > Q \leq R > M = P$

5. 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

Answer & Explanation

Answer – C. Only I and II are true

Explanation:

$P \geq Q > A = S \leq R < T$

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

6. 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

Answer & ExplanationAnswer – **D. Only III is true**

Explanation:

 $\$ = \geq$ $@ = >$ $\# = <$ $\& = =$ $* = \leq$ $KL \leq A \geq M$ 7. **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

Answer & ExplanationAnswer – **B. Only I is true**

Explanation:

 $N \geq W > K \leq V < Y$ 8. **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

Answer & ExplanationAnswer – **A. None is true**

Explanation:

 $T \leq Y \geq SK$ 9. **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

Answer & Explanation

Answer – **B. I, II are true**

Explanation:

$$S > L < M = B \leq Q$$

10. **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

Answer & Explanation

Answer – **A. None is true**

Explanation:

$$C < P \leq L > E \geq M$$

•

Statements: $P \geq Q; R > M; P \geq O; Q \geq R; N = Q$

Conclusions:

I. $R > O$

II. $O > Q$

III. $Q > M$

IV. $N > P$

- A. Only I is true
- B. Only II is true
- C. Either I or II true
- D. Neither I nor II is true
- E. Only III is true

Answer & Explanation

Answer – **E. Only III is true**

• **Statements:** $A \geq B; C = B; E > F; A \leq D; B \geq F$

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

Answer & Explanation

Answer – **D. II and III are true**

- **Statements:** $P > Q$; $S \geq U$; $Q \leq T$; $R = S$; $R < T$

Conclusions:

- I. $P \geq U$**
II. $U < T$
III. $S \leq P$
IV. $P < T$

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

Answer & Explanation

Answer – **B. Only II is true**

- **Statements:** $A=B$; $C \leq D$; $E > C$; $B < D$

Conclusions:

- I. $D < B$**
II. $D > E$
III. $A > E$
IV. $A > C$

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

Answer & Explanation

Answer – **A. None is true**

- **Statements:** $Q \geq P$; $R = S$; $U < T$; $Q < R$; $Q < V$; $S \geq T$

Conclusions:

- I. $S < U$**
II. $P > R$
III. $T < V$
IV. $P < R$

- A. Only I is true
B. Only IV is true
C. Only III is true
D. None is true
E. All are true

Answer & Explanation

Answer – **B. Only IV is true**

- **Statements:** $W = X$; $R < C$; $W \leq R$; $A \geq B$; $B > X$

Conclusions:

- I. $A > W$**
II. $B > W$
III. $C > X$
IV. $X \leq R$

- 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

Answer & Explanation

Answer – E. All are true

- **Statements:** $T > O$; $S > R$; $S \leq O$; $R \leq F$; $U \leq F$

Conclusions:

I. $T > S$

II. $O > R$

III. $F \geq U$

IV. $O \leq U$

- A. Only I, II and III are true
- B. Only II is true
- C. Only I, II and IV are true
- D. Neither I nor II is true
- E. None is true

Answer & Explanation

Answer – A. Only I, II and III are true

- **Statements:** $B \leq U$, $E \geq U$; $E > V$; $L \leq V$

Conclusions:

I. $E \geq B$

II. $E \geq L$

III. $U > V$

IV. $B \leq E$

- A. Only I, II and III are true
- B. Only II is true
- C. Only I and IV are true
- D. Neither I nor II is true
- E. None is true

Answer & Explanation

Answer – C. Only I and IV are true

- **Statements:** $C < R$; $R \leq N$; $N = M$; $M \geq F$; $Q \geq M$; $M < O$

Conclusions:

i. $R \leq F$

ii. $C < Q$

iii. $Q \leq M$

iv. $F < O$

- A. Only I, II and III are true
- B. Only II is true
- C. Only II and IV are true
- D. Neither I nor II is true
- E. None is true

Answer & Explanation

Answer – C. Only II and IV are true

- **Statements:** $N \leq Q$; $R > P$; $P = N$; $S > T$; $T \geq R$

Conclusions:

I. $S > N$

II. $Q = P$

III. $P < Q$

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

Answer & Explanation

Answer – **D. Either II or III and I are true**

Direction (1-6): Relationship between different elements is shown in the statements. Find if the conclusions also follow or not.

1. Statements: $A > L \geq H > M = D < G \leq F$; $U \leq K = P > M$; $N = K < S$

Conclusions:

I. $A > S$

II. $A = S$

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

Answer

Option D

Solution:

$A > M < K < S$

So relationship cannot be determined between A and S. For either or condition, all three $<$, $>$, $=$ sign should be present in conclusion

2. Statements: $B < G \leq V = F > H$; $K = L > F \leq N = P$; $D > N = S$

Conclusions:

I. $H < S$

II. $B < P$

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

Answer

Option E

3. Statements: $V < L = D < K \geq H > S$; $P \leq K = D > E$; $K = F \leq Z$

Conclusions:

I. $Z > L$

II. $E < V$

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

Answer**Option B****Solution:** $Z \geq K = D = L$, So $Z \geq L$ 4. Statements: $K = L < D \leq G = P$; $U > E = D \geq X \leq B$; $P > O \geq V < S$

Conclusions:

I. $V < X$ II. $P \geq X$

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

Answer**Option B**5. Statements: $K = L < D \leq G = P$; $U > E = D \geq X \leq B$; $P > O \geq V < S$

Conclusions:

I. $U > K$ II. $P > B$

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

Answer**Option A**6. Statements: $B < G \leq V = F > H$; $K = L > F \leq N = P$; $D > N = S$

Conclusions:

I. $L > G$ II. $D > K$

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

Answer**Option A**

7. Which of the following would replace & and # in the following expression so that 'A > N' holds true?

 $A > L \geq H$ & $M = D < G \leq F$; $U \leq K = M > P$; N # $K < S$

A) =, =

B) \geq , >C) \geq , \geq

D) <, =

E) None of these

Answer

Option A

Solution:

$A > L \geq H = M = K = N$, So $A > N$

8. In which of the following expressions does the expression ' $G < S$ ' definitely hold true?

A) $A = S < F \geq H = K > G > D$

B) $D > A = G \geq B = F \leq S < H$

C) $A < O > G < H = H < S \geq B$

D) $G = U \leq B = S \leq H = O < A$

E) None of these

Answer

Option C

9. In which of these expression ' $L \geq R$ ' is definitely false?

A) $W < R \geq S \geq Q < N > A \geq L > V$

B) $N > L > M = D \geq B = A > P = R$

C) $M \leq A > L > W \geq V \leq B = P < R$

D) $S > L = C \geq H = V \geq P \leq R = T$

E) $B > R \leq A = M = Q \leq T = L < G$

Answer

Option B

Solution:

in B) – $L > R$ so ' $L \geq R$ ' is definitely false

In A), C) and D) – relation between L and R cannot be determined, so cannot be told that whether ' $L \geq R$ ' is definitely false or not.

In E) – $L \geq R$ is true

10. Which of the following expressions is definitely false if the expression $K > O = G \leq D > F = P \geq Q < T$ is definitely true?

A) $K > D$

B) $F \geq T$

C) $F < G$

D) $D = Q$

E) $P < O$

Answer

Option D

Solution:

$D < Q$ in given expression, so $D = Q$ is definitely false

Direction (1-6): Relationship between different elements is shown in the statements. Find if the conclusions also follow or not.

1. Statements: $H \geq O = U \geq B < L = P$; $D < N = B \geq S > K$

Conclusions:

- I. $K < L$
II. $H \geq K$
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

Answer

Option A

2. Statements: $B < N = T \geq G > H = F$; $G > L = D > V$; $L > W = A$

Conclusions:

- I. $A < H$
II. $V < B$
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

Answer

Option D

3. Statements: $F \geq V = T \geq G < L \leq D = S$; $E = Q < T \leq N$; $Q > P = W$

Conclusions:

- I. $D > N$
II. $F > W$
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

Answer

Option B

4. Statements: $N > D \geq F > J$; $E < L \leq G < S < P < F$; $G > W$

Conclusions:

- I. $W < J$
II. $J \leq W$
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

Answer

Option C

Solution:

$W < G < S < P < F > J$. So no relation between W and J, so

- 1) either $W > J$ or $W \leq J$ follows OR
2) either $W < J$ or $\geq J$ follows — which is given case

5. Statements: $H > L = G \geq S < L \leq W$; $S > W > P = R \leq V$; $P < X = O$

Conclusions:

- I. $W > R$
II. $O > R$
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

Answer

Option E

6. Statements: $V < E = D = W \geq L$; $F \geq S = D < K$; $L \geq R = H \geq B$

Conclusions:

- I. $B < S$
II. $B = S$
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

Answer

Option C

Solution:

$B \leq L \leq W = D = S$, so $B \leq S$

7. Which of the following would replace % and # in the following expression so that $A \leq B$ holds true?

$Q < D \% S \geq A = W$; $B \geq P \# D = Z > X$

- A) $>, \leq$
B) $\geq, >$
C) \geq, \geq
D) $>, =$
E) None of these

Answer

Option C

Solution:

$A \leq S \leq D \leq P \leq B$

8. In which of the following expressions does the expression ' $B \leq H$ ' and ' $A > G$ ' definitely hold true?

- A) $A = B < F \geq H = K > G > D$
B) $D > A = G \geq B = F \leq G < H$

- C) $A < O > G < H = H \geq S \geq B$
 D) $G = U \leq B = E \leq H = O < A$
 E) None of these

Answer

Option D

9. In which of these expression ' $L > P$ ' is definitely false?

- A) $W < P \geq S \geq Q < N > A \geq L > V$
 B) $N > L > M = D \geq B = A > P = R$
 C) $M \leq A > L > W \geq V \leq B = P < S$
 D) $S > L = C \geq H = H \geq P \leq Q = T$
 E) $B > L \leq A = M < Q \leq T = P < G$

Answer

Option E

Solution:

In A, B, C – relation between L and P cannot be determined, so cannot be told that whether ' $A \leq P$ ' is definitely false or not.

In D) – $L \geq P$, so cannot be said that whether $L > P$ or $L = P$, so cannot be said that ' $L > P$ ' is definitely false

In E) – $L < P$, so ' $L > P$ ' is definitely false

10. In which of these expression ' $A \leq P$ ' is definitely false?

- A) $W < P \geq S \geq Q < N > A \geq R > V$
 B) $N > A > M = D \geq B = L > P = R$
 C) $M \leq A > L > W \geq V \leq B = P < S$
 D) $S > A > C \leq H = P \leq Q = T = K$
 E) $B > L \leq A > M \geq Q < T > P < G$

Answer

Option B

Solution:

In B) – $A > P$ so ' $A \leq P$ ' is definitely false. In other option, relation between A and P cannot be determined, so cannot be told that whether ' $A \leq P$ ' is definitely false or not.