



CODING INEQUALITIES

Inequalities:

There are two types of questions in Inequality –

1) Coded Inequality

2) Direct Inequality

Both kinds of questions can be solved easily once you have gone through the below tables.

In order to understand questions on inequality first you need to have an overview of various terminologies which are used in such questions –

| S.NO | SYMBOL | MEANING |
|------|--------|--|
| 1. | $>$ | First element is Greater than the Second element. |
| 2. | $<$ | First element is Smaller than the Second element. |
| 3. | $=$ | First element is Equal to the Second element. |
| 4. | \geq | First element is Greater than or Equal to the Second element. |
| 5. | \leq | First element is Smaller than or Equal to the Second element. |
| 6. | \neq | First element is either greater than or smaller than the Second element. |



| A to B | B to C | A to C |
|--------|--------|---|
| $>$ | $>$ | $>$ |
| $>$ | \geq | $>$ |
| \geq | $>$ | $>$ |
| \geq | \geq | \geq |
| $<$ | $<$ | $<$ |
| $<$ | \leq | $<$ |
| \leq | $<$ | $<$ |
| \leq | \leq | \leq |
| $>$ | $<$ | No result |
| \geq | \leq | Either or If maximum result are covered i.e ($>$, $<$, $=$) |



Practice examples:

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

Conclusions:

- A) $P > R$ B) $P > S$ C) $R = T$ D) $R > T$

2. Statement: $P < Q \leq R < S > T > U \neq Z$

Conclusions:

- A) $P < S$ B) $Q \leq S$ C) $R > T$ D) $P \leq R$

3. Statement: $M \leq N \leq O < P; K = L \geq O > C$

Conclusions:

- A) $M \leq P$ B) $K \geq N$ C) $P \geq K$ D) $M = C$

Ans:

1. A

2. A

3. B

Directions (4-6): Choose the correct option from the following options:

- A. if only conclusion I follow.
- B. if only conclusion II follow.
- C. if either conclusion I or conclusion II follows.
- D. if neither conclusion I nor conclusion II follows.
- E. if both conclusions I and II follow.

4. Statements: $P < Q \leq S = T, R = Q < U, V > U$

Conclusions: I. $P > U$ II. $V > T$

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

Conclusions: I. $T \leq U$ II. $S > U$

6. Statements: $A \geq P = S > T, V < B = T \geq X$

Conclusions: I. $A > X$ II. $P < B$

Ans:

4. D

5. D

6. A

Directions(7-8):

'P©Q' means 'P' is greater than 'Q'.

'P%Q' means 'P' is smaller than 'Q'.

'P@Q' means 'P' is either greater than or equal 'Q'.

'P\$Q' means 'P' is either smaller than or equal to 'Q'.

'P#Q' means 'P' is equal to 'Q'.

- 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



7. Statements: M @ R, R ©F, F#L

Conclusions:

I. R@L

II. M@L

Ans: D

8. Statements: T % J, J @ V, V # W

Conclusions:

I. T©J

II. J@W

Ans: B



THANK YOU!