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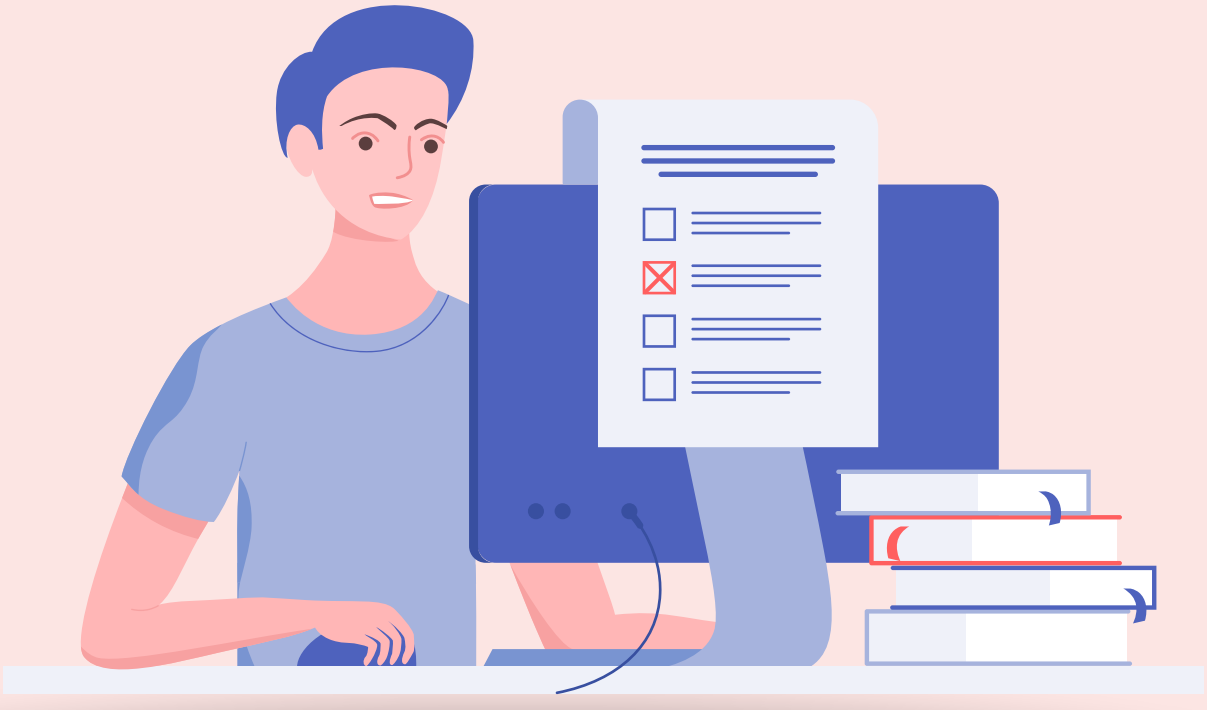
Free eBook

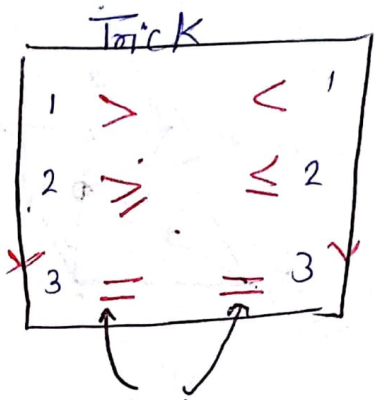
Inequality Class Notes

By Oliveboard Faculty



For Competitive Exams

Inequality (58) → Bank



Statement : I. $P \geq Q = R > S$

Conclusions ① $P = R$ $(\geq, =)$

② $Q \geq S$ $(=, >)$

~~③~~ $P > S$ $(\geq, =, >)$

Statement : I. $M \leq N = R < T$

Conclusions – ① $M = R$ X

~~②~~ $N < T$

Q-3 statement I. $M = R > N = S \leq T$

Con ~~I.~~ $M > S$

~~2.~~ $N \leq T$

Both follow

Quesy St. $R \leq T < W = P$

Con ① $P < T$

~~2~~ $P > T$

only 2nd follows

Ques 5:- St $A \geq B = C > D = E \leq F = G < H$

Conclusion ① $B > D$ ⑥ $G \geq E$

② $A \geq C$ ⑦ $H > E$

③ $C > E$ ⑧ $G \geq D$

④ $D \leq F$ ⑨ $C \leq A$

⑤ $F < H$ ⑩ $D < B$

★ ⑪ C ✗ F

⑫ B ✗ F

⑬ A ✗ F

⑭ A ✗ G

⑮ A ✗ H

} Block

Ques 6:- Statement $P \overrightarrow{=} R$, $R \overrightarrow{>} S$, $S \overrightarrow{\geq} T$

Con ① ✓ $P > S$

② ✓ $R > T$

Q-7 St $m \geq N$ $R \overrightarrow{>} P$ $N \overrightarrow{=} R$

Con ✓ 1. $N > P$ $(N = R, R > P)$

2. $m \geq R$ $(m \geq N \quad N = R)$

Q-8 Statement $Q \geq T$; $R < P$; $P > T$.

Con 1. $R < T$ ✗ (Block)

2. $Q > P$ ✗ (Block)

None follows / Neither I nor II follows

Q-9 $M > N \leq O$; $R \leq N \geq O$

Con 1. ✓ $M > O$

2. ✓ $O > R$

3. ✓ $M > R$ all follows

Q⑩:- $R \geq P = S$; $O < P$; $O \geq O < T$

Conclusion ✓ $R > O$

2. $P > O$ ✗

3. $P > T$ ✗ → Block

only first follows

Ques 11:- St $A \overset{\leq}{\not>} B \leq C \overset{<}{\neq} D$

$\not>$ = $\leq$

$\neq$ = $<$

$\not<$ = $\geq$

$\leq$ = $>$

Conclusion I. ✗ $A < C$

2. ✓ $B < D$

3. ✗ $A > D$ only II nd follows

Q-12 St $A \overset{\geq}{\not<} B > C \neq D$

Con ✗ $A > C$

2. $B > D$ (Block) only I follows

Q⑬ ★ Either I or II Follows ★

(14th Aug)

① St. $P < Q > R$; $M \leq Q \geq N$; $W \geq Q \leq Z$.

Q:① Con 1. $P < M$ ×
2. $P < N$ ×
3. $R < N$ ×

None follows

Q:② Con① $P < Z$ ✓
2. $P < W$ ✓
3 $R < Z$ ✓

All follows

★★★

② Statement $P \geq R = S \geqslant T$.

Ques I Con① $P > S$
② $P = S$

→ None follows
Neither I nor II follows

⊕ add करके

$P \geq S$

Either I or II follows

★ Condition I both Conclusion must be wrong.

★ Condition 2 Sub & obj° are same

★ Condition 3 All symbols of result should be inconclusions.

as $P \geq S$

Con 1. $R > T$ ×
2. $R < T$ ×
3 $R = T$ ×

$R \geq T$

Either I st or III rd follows.

Q-3 Statement $A > m = N \geq T$

① Con I. $m > T$
2. $m = T$ Either I st or 2nd follows

② Con I. $T < m$
2. $T = m$ Either I or II follows

③ Con I. $m < T$ ×
2. $m = T$ × $m \geq T$ None follows

④ Con I. $A < N$ ×
2. $A = N$ × $A > N$ None follows

⑤ Con I. × $m > T$
2. ✓ $A > N$
3. × $m = T$ $m \geq T$

~~Either~~ only 2nd follows and Either 1st or 3rd follows

Quesy 1st. $A > B < C$

① Con 1. $A > C$ ×] Block
2. $A \leq C$ ×]

Either I or II follows
[Because >, <, = Appears in Con I & II]

② Con 1. $A \geq C$ ×] Block
2. $A < C$ ×]

Either 1st or 2nd follows

(3) Con 1. $A > C$ ✗
2. $A < C$ ✗ } Block
3. $A = C$

Either 1 or 2 or 3rd follows

None follows

Neither 1st nor 2nd follows

(4) Con 1. $A = C$ ✗
2. $A \neq C$ ✗ } Block
$> <$

Either 1st or 2nd follows

Ques 5

Statement $M \_\_ N \_\_ O \_\_ P \_\_ R \_\_ S$

$M > P$ and $O < S$ (False)

(A) $> = = < =$
(B) $> \geq = \leq <$
(C) $> \geqslant = \leqslant \leqslant$
(D) $< = = > >$ ★
(E) $> > > > >$

(6) Statement $M \_\_ O \_\_ P \_\_ R \_\_ S \_\_ S$

$M \leq R$ and $P > S$ false

(A) $< = = = >$
(B) $\leq = \leq = \leq$
(C) $> = > = >$
(D) $> > = < <$ ★
(E) $\leq = = > <$

(7) $R \_\_ A \_\_ C \_\_ M \_\_ D \_\_ N$

$R > M$ and $C < N$ True

(A) $< = = > >$

(B) $\leq = = \geq \geq$

(C) $> = < = >$

(D) $> > < < >$

(E) $> > = < <$ ✱

Cases:- St P @ Q means P is neither greater nor Smaller than Q.

Coded Inequality

P $\$_{\geq}$ Q means P is not Smaller than Q

P #$_{>}$ Q means P is neither Smaller nor equal to Q

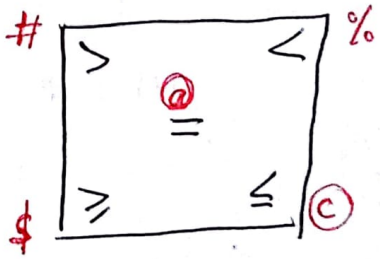
P %$_{<}$ Q means P is neither greater nor equal to Q

P ©$_{\leq}$ Q means P is not greater than Q

St M $\$_{\geq}$ N N @$_{=}$ O O #$_{>}$ T

Cond 1. M $\$_{\geq}$ O ✓

2. N #$_{>}$ T ✓ Both follows



(9) St M # N , O @ P N $ P

Con 1 ✓ M # P (#, $)

2. ✓ N $ O ($, $)

Both follows

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