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Inequalities Questions for IBPS Clerk Pre, SBI Clerk Pre and IBPS RRB Exams.

Inequalities Quiz 24

Directions: In these questions, relationship between different elements is shown in the statement. The statements are followed by two conclusions. Choose the correct Answer given below:

1. **Statements:** $P \leq Q \leq R = S$, $U \geq V \geq S$

Conclusions: $P < U$, $P = U$

- A. Only conclusion II follows.
- B. Only conclusion I follows.
- C. Both conclusion I and II follow.
- D. Neither conclusion I nor conclusion II follows.
- E. Either conclusion I or conclusion II follows.

2. **Statements:** $P = R$, $R < F$, $F < T$

Conclusions: $T < R$, $F < P$

- A. Only conclusion II follows.
- B. Only conclusion I follows.
- C. Both conclusion I and II follow.
- D. Neither conclusion I nor conclusion II follows.
- E. Either conclusion I or conclusion II follows.

3. **Statements:** $L > R$, $R \geq T$, $T \geq M$

Conclusions: $M \geq R$, $T < L$

- A. Only conclusion II follows.
- B. Only conclusion I follows.
- C. Both conclusion I and II follow.
- D. Neither conclusion I nor conclusion II follows.
- E. Either conclusion I or conclusion II follows.

4. **Statements:** $C < F$, $F \leq G$, $G < M$

Conclusions: $M > F$, $C < G$

- A. Only conclusion II follows.
- B. Only conclusion I follows.
- C. Both conclusion I and II follow.
- D. Neither conclusion I nor conclusion II follows.
- E. Either conclusion I or conclusion II follows.

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5. **Statements:** $G = T$, $T \leq W$, $W \geq K$

Conclusions: $W > G$, $W = G$

- A. Only conclusion II follows. B. Only conclusion I follows.
C. Both conclusion I and II follow. D. Neither conclusion I nor conclusion II follows.
E. Either conclusion I or conclusion II follows.

6. **Statements:** $C < D$, $E \geq B$, $B > D$, $A = E$

Conclusions: $B > C$, $A < D$

- A. Either C1 or C2 follows B. Only C1 follows
C. Only C2 follows D. Both C1 and C2 follow
E. Neither C1 nor C2 follows

7. **Statements:** $P \geq Q$, $R < S$, $Q = S$, $T > P$

Conclusions: $R < T$, $T > S$

- A. Either C1 or C2 follows B. Only C1 follows
C. Only C2 follows D. Both C1 and C2 follow
E. Neither C1 nor C2 follows

8. **Statements:** $W > Y$, $Y < U$, $U = V$, $V > T$

Conclusions: $W < T$, $T > Y$

- A. Either C1 or C2 follows B. Only C1 follows
C. Only C2 follows D. Both C1 and C2 follow
E. Neither C1 nor C2 follows

9. **Statements:** $F > R$, $R = Q$, $H > Q$, $P < F$

Conclusions: $F < H$, $F > Q$

- A. Either C1 or C2 follows B. Only C1 follows
C. Only C2 follows D. Both C1 and C2 follow
E. Neither C1 nor C2 follows

10. **Statements:** $C \geq D$, $E < A$, $A \geq O$, $E = D$

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

- A. Either C1 or C2 follows B. Only C1 follows
C. Only C2 follows D. Both C1 and C2 follow
E. Neither C1 nor C2 follows

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Correct Answers:

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

Explanations :

1. **Statements:** $P \leq Q \leq R = S$, $U \geq V \geq S$

Conclusions: $P < U$, $P = U$

For statements I and II: $P < U$ and $P = U$

Combining statements I and II, we get:

$$P \leq Q \leq R = S \leq V \leq U$$

Here, the common sign between P and U is ' \leq ' and the given conclusions are $P < U$ and $P = U$. Hence, either $P < U$ or $P = U$ follows.

Hence, the correct answer would be Either conclusion I or conclusion II follows.

2. **Statement:** $P = R$, $R < F$, $F < T$

Conclusions: $T < R$, $F < P$

For conclusion I: $T < R$

Combining statements II and III, we get:

$$R < F < T$$

Here, the common sign between R and T is ' $<$ ' and the given conclusion is $T < R$. Hence, conclusion I does not follow.

For conclusion II: $F < P$

Combining statement I and II, we get:

$$P = R < F$$

Here the common sign between P and F is ' $<$ ' and the given code is $F < P$. Hence, conclusion II does not follow too.

Hence, the correct answer would be 'Neither conclusion I nor conclusion II follows'.

3. Statements: $L > R$, $R \geq T$, $T \geq M$

Conclusions: $M \geq R$, $T < L$

For conclusion I: $M \geq R$

Combining statements II and III, we get:

$$R \geq T \geq M$$

Here, the common sign between R and M is ' \geq ' and the given conclusion is $M \geq R$. Hence, conclusion I does not follow.

For conclusion II: $T < L$

Combining statements I and II, we get:

$$L > R \geq T$$

Here, the common sign between L and T is ' $>$ ' and the given conclusion is $T < L$. Hence, conclusion II follows.

Hence, the correct answer would be 'Only conclusion II follows'.

4. Statements: $C < F$, $F \leq G$, $G < M$

Conclusions: $M > F$, $C < G$

For conclusion I: $M > F$

Combining statements II and III, we get:

$$F \leq G < M$$

Here, the common sign between F and M is ' $<$ ' and the given conclusion is $M > F$. Hence, conclusion I follows.

For conclusion II: $C < G$

Combining statements I and II, we get:

$$C < F \leq G$$

Here, the common sign between C and G is ' $<$ ' and the given conclusion is $C < G$. Hence, conclusion II follows.

Hence, the correct answer would be 'both conclusion I and conclusion II follows'.

5. Statements: $G = T$, $T \leq W$, $W \geq K$

Conclusions: $W > G$, $W = G$

For conclusion I and II: $W > G$ and $W = G$

Combining statement I and II, we get:

$$G = T \leq W$$

Here, the common sign between G and W is ' \leq ' and the given conclusions $W > G$ and $W = G$. Hence, either conclusion I or conclusion II follows.

Hence, the correct answer would be 'Either conclusion I or conclusion II follows'

6. Checking C1:

$$B > D > C$$

Thus C1 follows.

Checking C2:

$$A = E \geq B > D$$

Thus C2 does not follow.

Hence option B is correct.

7. Checking C1:

$$R < S = Q \leq P < T$$

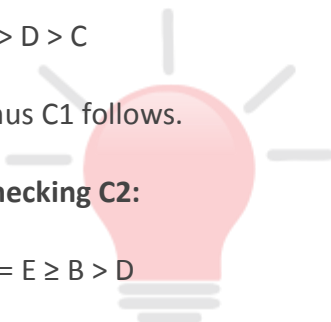
Thus C1 follows.

Checking C2:

$$S = Q \leq P < T$$

Thus C2 also follow.

Hence option D is correct.



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8. Checking C1:

$$W > Y < U = V > T$$

Thus C1 does not follow.

Checking C2:

$$Y < U = V > T$$

Thus C2 does not follow.

Hence option E is correct.

9. Checking C1:

$$F > R = Q < H$$

Thus C1 does not follow.

Checking C2:

$$F > R = Q$$

Thus C2 follows.

Hence option C is correct.

10. Checking C1:

$$O \leq A > E = D$$

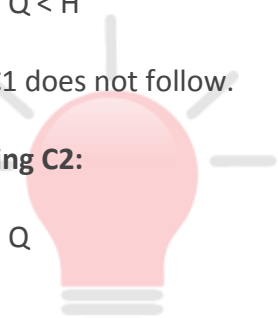
Thus C1 does not follow.

Checking C2:

$$C \geq D = E$$

Thus C2 follows.

Hence option C is correct.



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