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Inequalities Questions for IBPS PO Pre Exams

Inequalities Quiz 34

Directions : Study the following questions carefully and choose the right answer given beside.

1. Which of the following set of letters when placed from left to right in the given blanks make the conclusion 'L ≤ O' definitely true?

$$_ \leq M = _ \leq _ < _ = Q$$

A. N, L, P, O

B. L, N, O, P

C. P, L, N, O

D. P, N, O, L

E. More than one of the above

2. In which of the following both 'U < R' and 'T ≤ W' are definitely true?

A. $T = U \leq S \leq V = W > R$

B. $R > S > W \geq T < U = V$

C. $V \geq U < S = R > W > T$

D. $U = V \geq R \leq T \leq S < W$

E. $R \geq S > T = U \leq V \leq W$

3. Which of the following symbols should replace '@' and '&' in the given expression in order to make the expressions 'Z > X' definitely true and 'Z < C' definitely false?

$$X \leq Y @ Z \geq A \geq B \& C$$

A. ≤, >

B. <, <

C. <, >

D. ≤, ≤

E. None of these

4. What will come in place of the question mark '?' in the expression given below to make $O > S$ and $P > Q$ true?
 $G \geq R \leq S < P ? O > Q$

A. >

B. <

C. =

D. \leq

E. \geq

5. Which of the following set of letters when placed from left to right in the given blanks make the conclusion ' $S > P$ ' definitely true?

___ \geq U < T = ___ \leq ___ < ___

A. P, R, G, S

B. R, P, G, S

C. S, R, G, P

D. R, S, G, P

E. More than one of the above

6. Which of the following set of letters when placed from left to right in the given blanks make the conclusion ' $F > C$ ' and ' $C < A$ ' definitely true?

___ \geq B > ___ \leq ___ \leq E < ___

A. A, C, F, D

B. F, C, A, D

C. D, C, F, A

D. D, C, A, F

E. A, C, D, F

7. Which of the following set of letters when placed from left to right in the given blanks make the conclusion ' $K \leq N$ ' definitely false?

$K \leq$ ___ = ___ < ___ \geq ___ > P

A. N, M, L, O

B. O, N, M, L

C. L, M, N, O

D. L, M, O, N

E. More than one of the above



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Explanation:

1. Checking all the options,

In option A, we get,

$$N \leq M = L \leq P < O = Q$$

Clearly, $L \leq O$ doesn't follow. So, this is not the correct option.

In option B, we get,

$$L \leq M = N \leq O < P = Q$$

Clearly, $L \leq O$ follows. So, this option is correct.

In option C, we get,

$$P \leq M = L \leq N < O = Q$$

Clearly, $L \leq O$ doesn't follow. So, this is not the correct option.

In option D, we get,

$$P \leq M = N \leq O < L = Q$$

Clearly, $L \leq O$ doesn't follow. So, this option is incorrect.

Hence, option B is correct.

2. Checking all the options,

In option A, we get,

$$T = U \leq S \leq V = W > R$$

$T \leq W$ is true but $U < R$ is not definitely true because we cannot compare both of them



as sign is changing between them. So, this is not the correct option.

In option B, we get,

$$R > S > W \geq T < U = V$$

$T \leq W$ is true but $U < R$ is not definitely true. So, this is not the correct option.

In option C, we get,

$$V \geq U < S = R > W > T$$

$U < R$ is true but $T \leq W$ is not true. So, this is not the correct option.

In option D, we get,

$$U = V \geq R \leq T \leq S < W$$

Both $U < R$ and $T \leq W$ are not true. So, this is not the correct option.

In option E, we get,

$$R \geq S > T = U \leq V \leq W$$

Both $U < R$ and $T \leq W$ are definitely true. So, this is the correct option.

Hence, option E is correct.

3. Checking all the options,

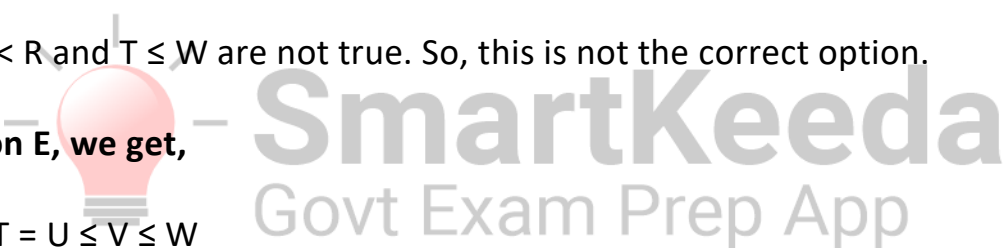
In option A, we get,

$$X \leq Y \leq Z \geq A \geq B > C$$

$Z > X$ is not true but $C > Z$ is false. So, this is not the correct option.

In option B, we get,

$$X \leq Y < Z \geq A \geq B < C$$



$X < Z$ is true but $Z < C$ is not definitely false because we cannot compare Z and C as sign is changing between them. So, this is not the correct option.

In option C, we get,

$$X \leq Y < Z \geq A \geq B > C$$

$X < Z$ is true and $C > Z$ is definitely false. So, this is the correct option.

In option D, we get,

$$X \leq Y \leq Z \geq A \geq B \leq C$$

$X < Z$ is not true and $C > Z$ is not definitely false because we cannot compare them as sign is changing between them. So, this is not the correct option.

Hence, option C is correct.

4. If '=' will replace the question mark, then the expression will become:

$$G \geq R \leq S < P = O > Q$$

Now, $O > S$ and $P > Q$

Hence, option C is correct.

5. Checking all the options,

In option A, we get,

$$P \geq U < T = R \leq G < S$$

Clearly, we cannot compare P and S because sign is changing between them. So, this is not the correct option.

In option B, we get,

$$R \geq U < T = P \leq G < S$$

Clearly, $P < S$. So, this option is correct.

In option C, we get,

$$S \geq U < T = R \leq G < P$$

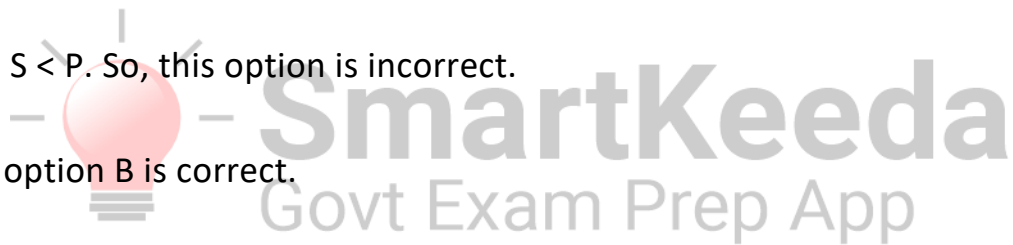
Clearly, we cannot compare P and S because sign is changing between them. So, this is not the correct option.

In option D, we get,

$$R \geq U < T = S \leq G < P$$

Clearly, $S < P$. So, this option is incorrect.

Hence, option B is correct.



6. Checking all the options,

In option A, we get,

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

Clearly, we get $A > C$ but not $F > C$. So, this is not the correct option.

In option B, we get,

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

Clearly, we get $F > C$ but not $A > C$. So, this is not the correct option.

In option C, we get,

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

Clearly, we get $A > C$ but not $F > C$. So, this is not the correct option.

In option D, we get,

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

Clearly, we get $F > C$ but not $A > C$. So, this is not the correct option.

In option E, we get,

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

Clearly, we get $F > C$ and $A > C$. So, this is the correct option.

Hence, option E is correct.

7. Checking all the options,

In option A, we get,

$$K \leq N = M < L \geq O > P$$

Clearly, we get $N \geq K$. So, this is not the correct option.

In option B, we get,

$$K \leq O = N < M \geq L > P$$

Clearly, we get $N \geq K$. So, this is not the correct option.

In option C, we get,

$$K \leq L = M < N \geq O > P$$

Clearly, we get $N > K$. So, this is the correct option because $N \geq K$ is definitely false.

In option D, we get,

$$K \leq L = M < O \geq N > P$$



Clearly, we cannot compare K and N because sign is changing between them, so we cannot say that $N \geq K$ is definitely false. So, this is not the correct option.

Hence, option C is correct.

8. Applying all the symbols one by one we get,

Option (A), $D \geq G = H < I = J \leq K$, we get $D > I$ is not definitely true. So, this is incorrect.

Option (B), $D \geq G = H = I = J \leq K$, we get $D > I$ is not definitely true. So, this is incorrect.

Option (C), $D \geq G = H > I = J \leq K$, we get $D > I$ is definitely true and $H < J$ is definitely false. So, this is correct.

Option (D), $D \geq G = H \geq I = J \leq K$, we get $D > I$ is not definitely not true. So, this is incorrect.

Hence, option C is the correct answer.

9. Applying all the symbols one by one we get,

Option (A), $P > Q \geq R < S \leq T = U$, in this equation $S < P$ doesn't follow and $R \leq U$ is definitely false. So, this is incorrect.

Option (B), $P > Q \geq R = S \leq T = U$, in this equation $P > S$ definitely follows but $R \leq U$ also definitely follows. So, this is incorrect.

Option (C), $P > Q \geq R \leq S \leq T = U$, in this equation $P > S$ is not definitely true. So, this is incorrect.

Option (D), $P > Q \geq R > S \leq T = U$, in this equation $P > S$ is definitely true but $R \leq U$ is not **definitely** false. So, this is also incorrect.

Hence, option E is the correct answer.

10. Statements: $C \leq L > T$, $M = T \leq Q$, $D > G < C$

The first conclusion is $L > Q$.

Combining the equations,

$$L > T \leq Q$$

Clearly, we cannot compare L and Q because sign is changing between them.

Hence, first conclusion doesn't follow.

The second conclusion is $G < L$.

Combining the equations,

$$G < C \leq L$$

Clearly, L is greater than C. Hence, this conclusion follows.

Hence, second conclusion does follow.

Hence, option B is correct.



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