



Coded Inequalities Questions

Question 1:

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In this question, there are three statements showing the relation, which follow the three i, ii and iii. Believing the statement as true, find out which findings are completely true.

Statement: $A \leq B < S$; $S = E > N$; $N > C = T$

Conclusion:

- i) $B < N$
- ii) $E > T$
- iii) $A < C$

1. I only) and ii)

2. Only ii) and iii)

3. Only ii)

4. All are rational

Answer (Detailed Solution Below)

Option 3 : Only ii)



Coded Inequalities Question 1 Detailed Solution

Statements: $A \leq B < S$; $S = E > N$; $N > C = T$

After combining the statements, we get: $A \leq B < S = E > N > C = T$

Conclusions:

i) $B < N \rightarrow$ Does not follow as ($B < S = E > N$, therefore there is not definite relation can be concluded between B and N).

ii) $E > T \rightarrow$ **Follows** as ($E > N > C = T$, therefore $E > T$).

iii) $A < C \rightarrow$ This does not follow as ($A \leq B$ and $N > C$, but there is no direct link between A and C to establish this comparison directly).

So, **Only Conclusion II** follows.

Hence, the correct answer is '**Option 3**'.

Question 2:

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Comprehension:

Direction: Study the given information and answer which conclusion definitely follows:

$P @ Q$ means P is neither less nor equal to Q.



$P \# Q$ means P is neither greater nor equal to Q .

$P \$ Q$ means P is neither less nor greater than Q .

$P \& Q$ means P is not greater than Q .

$P \% Q$ means P is not less than Q .

Statement: $Y \# X \& Z \# N; X \% R \$ T @ W$

Conclusions:

I) $N @ W$

II) $T \% Y$

III) $Z \% R$

1. Only conclusion I is true.
2. Only conclusion II is true.
3. Both conclusion I and III is true.
4. All are true
5. None is true

Answer (Detailed Solution Below)

Option 3 : Both conclusion I and III is true.

Coded Inequalities Question 2 Detailed Solution

Given:

P is	@	#	\$	&	%	to Q
	>	<	=	≤	≥	

Now,

Statements: $Y \# X \& Z \# N; X \% R \$ T @ W$

$Y < X \leq Z < N; X \geq R = T > W$

$Y < X \geq R = T > W$

$N > Z \geq X \geq R = T > W$

Conclusions:



I) $N @ W \rightarrow N > W \rightarrow$ It is given that $N > Z \geq X \geq R = T > W$. As we can see that N is greater than W, this conclusion **follows**.

II) $T \% Y \rightarrow T \geq Y \rightarrow$ It is given that $Y < X \geq R = T$. As there is no direct relation between Y and T, this conclusion also **doesn't follow**.

III) $Z \% R \rightarrow Z \geq R \rightarrow$ It is given that $Z \geq X \geq R$. As we can see that Z is greater than or equal to R, this conclusion also **follows**.

Hence, the correct answer is **Only conclusion I and III is true**.

Question 3:

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Comprehension:

Direction: Study the given information and answer which conclusion definitely follows:

$P @ Q$ means P is neither less nor equal to Q.

$P \# Q$ means P is neither greater nor equal to Q.

$P \$ Q$ means P is neither less nor greater than Q.

$P \& Q$ means P is not greater than Q.

$P \% Q$ means P is not less than Q.

Statements: $M @ L \$ Y \$ C \# V \& O; S @ N @ Y \& G$

Conclusions:

I) $V \# G$

II) $S @ C$

III) $O \% M$

1. Only conclusion I is true.

2. Only conclusion II is true.



3. Both conclusion I and II is true.

4. All are true

5. None is true

Answer (Detailed Solution Below)

Option 2 : Only conclusion II is true.

Coded Inequalities Question 3 Detailed Solution

Given:

P is	@	#	\$	&	%	to Q
	>	<	=	≤	≥	

Now,

Statements: $M @ L \$ Y \$ C \# V \& O; S @ N @ Y \& G$

$M > L = Y = C < V \leq O; S > N > Y \leq G$

$M > L = Y = C \leq G; M > L = Y = C < N < S; S > N > Y = C < V \leq O$

$G \geq Y = C < V \leq O$

Conclusions:

I) $V \# G \rightarrow V < G \rightarrow$ It is given that $G \geq Y = C < V$. As there is no direct relation between V and G, this conclusion **doesn't follow**.

II) $S @ C \rightarrow S > C \rightarrow$ It is given that $S > N > Y = C$. As we can see that S is greater than C, this conclusion **follows**.

III) $O \% M \rightarrow O \geq M \rightarrow$ It is given that $M > L = Y = C < V \leq O$. As there is no direct relation between O and M, this conclusion also **doesn't follow**.

The correct answer is **Only conclusion II is true**.



Question 4:

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Comprehension:

Direction: Study the given information and answer which conclusion definitely follows:

$P @ Q$ means P is neither less nor equal to Q.

$P \# Q$ means P is neither greater nor equal to Q.

$P \$ Q$ means P is neither less nor greater than Q.

$P \& Q$ means P is not greater than Q.

$P \% Q$ means P is not less than Q.

Statements: $T \# N @ M \& H \# D$; $M \$ L \# Z$; $N \% V @ C$

Conclusions:

I) $N \% Z$

II) $H @ C$

III) $V \# D$

1. Only conclusion I is true.

2.
Only conclusion II is true.

3. Both conclusion I and II is true.

4. All are true

5. None is true

Answer (Detailed Solution Below)



Option 5 : None is true

Coded Inequalities Question 4 Detailed Solution

Given:

P is	@	#	\$	&	%	to Q
	>	<	=	≤	≥	

Now,

Statements: $T \# N @ M \& H \# D; M \$ L \# Z; N \% V @ C$

$T < N > M \leq H < D; M = L < Z; N \geq V > C$

$T < N > M = L < Z$

$T < N \geq V > C$

$H > D \geq M = L < Z$

$C < V \leq N > M \leq H < D$

Conclusions:

I) $N \% Z \rightarrow N \geq Z$ → It is given that $N > M = L < Z$. As there is no direct relation between N and Z, this conclusion **doesn't follow**.

II) $H @ C \rightarrow H > C$ → It is given that $C < V \leq N > M \leq H$. As there is no direct relation between H and C, this conclusion also **doesn't follow**.

III) $V \# D \rightarrow V < D$ → It is given that $V \leq N > M \leq H < D$. As there is no direct relation between V and D, this conclusion also **doesn't follow**.

Hence, the correct answer is **None is true**.

Question 5:

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Consider the following:

I $A + B$ means A is neither smaller nor equal to B



II. $A - B$ means A is not greater than B .

III. $A \times B$ means A is not smaller than B .

IV. $A \div B$ means A is neither greater nor equal to B .

V. $A \pm B$ means A is neither smaller nor greater than B .

Statement: $P \times Q$, $P - T$, $T \div R$, $R \pm S$

Conclusion-1: $Q \pm T$

Conclusion-2: $S + Q$

Which one of the following is correct in respect of the above Statement and the Conclusions?

1. Only Conclusion-1 follows from the Statement.
2. Only Conclusion-2 follows from the Statement.
3. Both Conclusion-1 and Conclusion-2 follow from the Statement.
4. Neither Conclusion-1 nor Conclusion-2 follows from the Statement.

Answer (Detailed Solution Below)

Option 2 : Only Conclusion-2 follows from the Statement.

Coded Inequalities Question 5 Detailed Solution

The Correct answer is **Option 2**.



Key Points

According to the question,

$A + B$ means $A > B$

$A - B$ means $A \leq B$

$A \times B$ means $A \geq B$

$A \div B$ means $A < B$

$A \pm B$ means $A = B$

It's given that, $P \times Q$, $P - T$, $T \div R$, $R \pm S$

Or $P \geq Q$, $P \leq T$, $T < R$, $R = S$

Using this we get: $S = R > T \geq P \geq Q$

Conclusion I: $Q \pm T$ or $Q = T$. This is not necessarily true.

Conclusion II: $S + Q$ or $S > Q$. This is true.

Hence, option (b) is correct.



Question 6

[View this Question Online >](#)

Comprehension:

Direction: In the following questions, the symbols *, #, %, & and \$ are used with the following meaning as illustrated below:

'X * Y' means 'X is neither less than nor greater than Y'.

'X # Y' means 'X is either greater than or equal to Y'.

'X % Y' means 'X is less than Y'.

'X & Y' means 'X is neither less than nor equal to Y'.

'X \$ Y' means 'X is not greater than Y'.

Now in each of the following questions assuming the given statements to be True, find which of the conclusion/s given below them is/are definitely True?

Statements:

A % B, C & D, F * E # C, D % A

Conclusions:

I. D % B

II. E & A

III. F & D

1. Only Conclusion I is True.

2. Only Conclusion II is True.

3. Only Conclusion III is True.

4. Both Conclusions I and III are True.



5. Both Conclusions II and III are True.

Answer (Detailed Solution Below)

Option 4 : Both Conclusions I and III are True.

Coded Inequalities Question 6 Detailed Solution

According to the given information,

X is					
Symbol	*	#	%	&	\$
Meaning	=	\geq	<	>	\leq
to Y					

Given Statements: $A \% B$, $C \& D$, $F * E \# C$, $D \% A$

On converting: $A < B$, $C > D$, $F = E \geq C$, $D < A$

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

Conclusions:

I. $D \% B \rightarrow D < B \rightarrow \text{True}$ (as $D < A < B \rightarrow D < B$)

II. $E \& A \rightarrow E > A \rightarrow \text{False}$ (as $E \geq C > D < A \rightarrow E > D < A \rightarrow$ thus clear relation between E and A can't be determined)

III. $F \& D \rightarrow F > D \rightarrow \text{True}$ (as $F = E \geq C > D \rightarrow F \geq C > D \rightarrow F > D$)

Hence, both conclusions I and III are true.



Question 7

[View this Question Online >](#)

Comprehension:

Direction: In the following questions, the symbols *, #, %, & and \$ are used with the following meaning as illustrated below:

'X * Y' means 'X is neither less than nor greater than Y'.

'X # Y' means 'X is either greater than or equal to Y'.

'X % Y' means 'X is less than Y'.

'X & Y' means 'X is neither less than nor equal to Y'.

'X \$ Y' means 'X is not greater than Y'.

Now in each of the following questions assuming the given statements to be True, find which of the conclusion/s given below them is/are definitely True?

Statements

Q & P, Y * U, D % P, Y # D

Conclusions:

I. U * D

II. D \$ U

III. D & U

1. Only Conclusion I is True.
2. Only Conclusion II is True.
3. Both Conclusions I and II are True.
4. Either Conclusion I or II is True.
5. Either Conclusion I or III is True.



Answer (Detailed Solution Below)

Option 2 : Only Conclusion II is True.

Coded Inequalities Question 7 Detailed Solution

According to the given information,

X is					
Symbol	*	#	%	&	\$
Meaning	=	\geq	<	>	\leq
to Y					

Statement: $Q \& P, Y * U, D \% P, Y \# D$

On converting: $Q > P, Y = U, D < P, Y \geq D$

On combining: $Q > P > D \leq Y = U$

Conclusions:

I. $U * D \rightarrow U = D \rightarrow$ False (as $D \leq Y = U \rightarrow D \leq U$)

II. $D \$ U \rightarrow D \leq U \rightarrow$ True (as $D \leq Y = U \rightarrow D \leq U$)

III. $D \& U \rightarrow D > U \rightarrow$ False (as $D \leq Y = U \rightarrow D \leq U$)

Hence, **Only conclusion II is true.**