

# Inequality and Coding Decoding

**Directions (1-5):** Read the information / statement given in such question carefully and answer the questions.

**Q.1.** Which of the following expressions will be true if the expression ' $H \leq G = K > F$ ' is definitely true?

- (1)  $K \geq H$                       (2)  $G = F$   
 (3)  $H \geq F$                       (4)  $F \geq G$   
 (5) None is true

**Q.2.** Which of the following expressions will not be true if the expression ' $P \leq Q < R = S$ ' is definitely true?

- (1)  $S \geq P$                       (2)  $P < R$   
 (3)  $S > Q$                       (4)  $P > S$   
 (5) None of these

**Q.3.** In which of the following expressions does the expression ' $W < Z$ ' hold true?

- (1)  $W > Y < X \leq Z$                       (2)  $Z > X \leq Y \leq W$   
 (3)  $Z \geq Y > X \geq W$                       (4)  $Z > Y = X < W$   
 (5)  $Z \geq X > Y \leq W$

**Q.4.** In which of the following expressions will the expression ' $L < R$ ' be definitely true?

- (1)  $L \geq M > N = R$                       (2)  $L = M < N > R$   
 (5) None of these

**Q.5.** In which of the following expressions does the expression ' $D > A$ ' does not hold true?

- (1)  $A < B \leq C = D$                       (2)  $D \geq B > C \geq A$   
 (3)  $A \leq B = C < D$                       (4)  $D \geq C \geq B > A$   
 (5)  $A > B \leq C = D$

**Q.6.** Statements:  $P < A \leq C \geq K$ ;  $C \leq O < L$ ;  $R \leq N \leq C$

Conclusions: I.  $A = K$  II.  $R < L$

**Q.7.** Statements:  $S \leq T \leq K \leq E$ ;  $N \geq E \leq P$

Conclusions: I.  $S \leq N$  II.  $S \leq P$

**Q.8.** Statements:  $S > O \geq U \geq P$ ;  $O \leq T < R$ ;  $T \geq E > A$

Conclusions: I.  $R < A$  II.  $U = A$

**Q.9.** Statements:  $P < A \leq C \geq K$ ;  $C \leq O < L$ ;  $R \leq N \leq C$

Conclusions: I.  $O \geq R$  II.  $P \leq O$

**Q.10.** Statements:  $S > O \geq U \geq P$ ;  $O \leq T < R$ ;  $T \geq E > A$

Conclusions: I.  $T > P$  II.  $T = P$

**Q.11.** Statement :  $J \geq N > M < K \leq L$

Conclusion:

I.  $L > M$  II.  $L > N$  III.  $M < J$  IV.  $K > J$

1. Only I is true  
 2. Only II is true  
 3. Only I and II are true  
 4. Only I and III are true  
 5. All I, II, III and IV are true

**Q. 12.** Statement :  $Y < U \geq W > V \leq X$

Conclusion:

I.  $X \geq W$  II.  $Y < W$  III.  $U > V$  IV.  $V < Y$

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- 1. Only I is true
- 2. Only IV is true
- 3. Only II is true
- 4. Only III is true
- 5. Both I and II are true

**Q.13.** Statement :  $P > Q = S \leq R > T$

Conclusion:

I.  $T < S$  II.  $T < P$  III.  $R = Q$  IV.  $R > Q$

- 1. Only II is true
- 2. Only IV is true
- 3. Either III or IV true
- 4. Both II and III are true
- 5. Both I and II are true

**Q.14.** What should come in place of blank spaces to make  $L \leq H$  and  $I > K$  always true in the expression

$L\_K\_H\_I\_J$ .

- 1. =, ≤, <, >
- 2. <, ≥, >, <
- 3. >, >, =, =
- 4. ≥, <, >, ≤
- 5. None of these

**Q.15.** What should come in place of question mark in the given expression so as to make  $B > C$  always false?

$B > D ? F = A \geq C$

- 1. =
- 2. >
- 3. >=
- 4. <
- 5. can't be determined

**Directions (16-20):** In these questions symbols @, \$, #, &, % are used with different meanings as follows.

$P @ Q$  means P is neither smaller than nor equal to Q

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

$P \$ Q$  means P is neither greater nor smaller than Q

$P \% Q$  means P is not greater than Q

$P \& Q$  means P is not smaller than Q

In each of the following questions assuming the given statements to be true, find out which of the two conclusions I and II given below them is /are definitely true.

Give answer (1) if only conclusion I is true.

Give answer (2) if only conclusion II is true.

Give answer (3) if either conclusion I or II is true.

Give answer (4) if neither conclusion I nor II is true.

Give answer (5) if both conclusions I and II is true

**Q.16.** Statements:  $A @ B, B \$ C, C \# D$

Conclusions: I.  $A \# D$  II.  $B @ D$

**Q.17.** Statements:  $P \& Q, Q \% R, R \$ S$

Conclusions: I.  $Q \$ S$  II.  $P \# S$

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**Q.18.** Statements: P&Q, Q@R, R%S  
 Conclusions: I. Q%S                      II. P%S

**Q.19.** Statements: A@B, B#C, C%D  
 Conclusions: I. B#D                      II. D@A

**Q.20.** Statements: A@B, B% C, C@D  
 Conclusions: I. D\$B                      II. B@D

**Directions (21-25) In the following questions, the symbols @, \$, %, # and © are used with the following meanings illustrated—**

- (i) 'X @ Y' means 'X is not smaller than Y'.
- (ii) 'X \$ Y' means 'X is not greater than Y'.
- (iii) 'X % Y' means 'X is neither smaller than nor equal to Y'.
- (iv) 'X # Y' means 'X is neither greater than nor equal to Y'.
- (v) 'X © Y' means 'X is neither smaller than nor greater than Y'.

In each of the following questions assuming the given statements to be true, find out which of the two conclusions I and II given below them is/are definitely true. Give answer

- (a) If only I is true.
- (b) If only II is true.
- (c) If either I or II is true
- (d) If neither I nor II is true.
- (e) If both I and II are true.

**Q21.** Statements: P \$ T, T @ L, U % L  
 Conclusions: I. P @ L II. U©L

**Q22.** Statements: A @B, B%D, D©K  
 Conclusions: I. A©K II. B%K

**Q23.** Statements: J # K, K©L, P\$ L  
 Conclusions: I. P\$K II. J#L

**Q24.** Statements: T % O, T # M, M@ V  
 Conclusions: I. M % T II. O % V

**Q25.** Statements: K @ T, T # C, C \$ P  
 Conclusions: I. C © K II. C % K

**Directions (26-30): Study the information and answer the following questions:  
 In a certain code language**

- "kite fly in sit" is coded as "X25G D5L S20T M14J"
- "exam date are search" is coded as "L13F D5B D5E G8T"
- "solution is must for" is coded as "M14T S20N R19J Q18G"

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" very problem may wrong" is coded as " F7X X25N L13Q X25W"

**Q26.**What is the code for 'school' in the given code language?

- (a) K21R
- (b) R12K
- (c) K12T
- (d) K34R
- (e) None of these

**Q27.**What is the code for 'fight problem' in the given code language?

- (a) L13Q S19G
- (b) G20SL13Q
- (c) S20GL13Q
- (d) L13Q S19T
- (e) None of these

**Q28.**What may be the possible code for 'money quick sky ' in the given code language?

- (a) X25N J11R T25X
- (b) J11R X25T N25X
- (c) J11S X25U N25X
- (d) X25N X25T J11R
- (e) None of these

**Q29.**What may be the possible code for 'student' in the given code language?

- (a) T21S
- (b) S20T
- (c) S19U
- (d) T20N
- (e) None of these

**Q30.**What is the code for 'Kind Work' in the given code language?

- (a) L12X L4C
- (b) K12X L4C
- (c) J11X C4L
- (d) L11X L4C
- (e) None of these

**Que(31-35).**Study the following information carefully to answer the given questions

'He writes a letter' is written as ' pa li ra sp'  
'Letter was sent to the USA' is written as ' hx li kj gd tf gh'  
'He write the Name and address' is written ' sl gd pa oc ra zg'  
'He received the letter' is written as 'li hm pa gd'

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**Q.31.**What is the code for letter ?

A.pa B. ra C.li D. sp E. None of these

**Q.32.**What is the code for 'received' ?

A.oc B.ra C.gd D.hm E.None of these

**Q.33.**What is the code for Address ?

A.sl B. zg C. oc D. Can't be determined E. None of these

**Q.34.**'received the written letter' is coded as

A. hx oc pa ra B.li kj pc sp C.hm gd ra li D.gd sp kj kj E. None of these

**Q.35.**What is the code for USA ?

A.tf B.gh C .hx D. Can't be determined E. None of these

**Q.36.** If POUND is coded as MLRKA, how will ENGLISH be coded?

1. AKDJEPF 2. BJDIFOE 3. BKDIFPE 4.BKDIDOE 5.None of these

**Q.37.**In a certain code HIMACHAL is coded as JKOCEJCN. How is ORISSA coded?

1.QTKUVC 2.QTKUPC 3.QTKUUC 4.QTKUUB 5.None of these