Coded Inequalities

Type I - Direct Inequalities

Directions (1-20): Study the following information carefully and answer the given guestions.

1.In which of the given expression does the expression F< N and R> M definitely hold true?

- a) M≤ N< L; R> N; P< F ≤ L
- b) M≤ N> L; R< N; P< F ≥ L
- c) $M \le N > L$; R > N; $P < F \le L$

- d) M≤ N> L: R< N: P< F≥ L
- e) M≥ N> L: R> N: P< F ≤ L

2.In which of the given expression does the expression N> Q and L> P definitely hold True?

- a) L>M \geq N< O = P \leq Q< R
- b) L> M \geq N> O = P \leq Q< R
- c) L > M \geq N> O = P \geq Q< R

- d) L> M \geq N \leq O = P \leq Q< R
- e) $L \ge M \ge N \ge O = P \ge Q < R$

3. What is in the place of question mark (?) in the given expression does the expression S> Y is definitely true and X ≥ V is definitely false?

 $S \ge T > X = U ? Y \ge V > Z$

- a)≥
- b)> or =
- c)> d) =
- e) <

4. What is in the place of question mark (?) in the given expression does the expression K< H and V> K is definitely true? $V = O \ge L ? K; O \le H$

- a)>
- b)=
- c)< or ≤
- d)≥
- e)None of these

5). If the expression D < A > C = F \geq G is definitely true, which of the following would be definitely true?

- a)G < C
- b)D = C
- c)G < A
- $d)F \leq A$
- e)D ≤ F

6). In which of the following expressions the expression 'P \leq M' would hold definitely true?

- a) $M \ge R = N > S \ge P = Q$
- b) $Q \ge M > N = W \ge P < S$
- c) $Q > M \ge N = W \ge P < S$

- d) $W < P = N \le Q < M > R$
- e) N > Q = P < S \leq R \leq M

7). In which of the following expressions the expression 'R \leq S \leq M' would hold definitely false?

- a) $V > R \le K < S = W \le M$
- b) $V < M \ge T \ge S = P > R$
- c) $K > M = J \ge S > N = R$

- d) $T = R \le K < S = P < M$
- e) $M \ge P = S \ge T > R = V$

8). Which of the following symbols should replace the question mark in the given expression in order to make K ≤ M definitely true? N = K = L ?P ? M

- a) <, <
- b) ≤, =
- c) ≤, <
- d) <, ≤
- e) None of these

9). Which of the following expressions is false, if the given expression is true? $V = W > X \le Y = Z$

- a) V > X
- b) Y ≥ X
- c) Y ≥ W
- d) $Z \ge X$
- e) None of these

10). What will come in place of question mark (?) to make the expression E > M true but A < O not true?

 $A?M=N?O \leq E$

- a) =, ≤
- b) ≥, ≤
- c) >, <
- d) ≤, <
- e) None of these

11). In which of the following expressions Q > P is not true?

- a) $J \leq Q > M = H \geq P$
- b) $P > M \le H = Q \ge N$ c) $M = P < H = N \le Q$ d) Only 1) and 3)
- e) None of these

12). In which of the following expressions R < N is false?

- a) $R \le P = S < N > J = L$
- b) $S < R \le P = J < L \le N$
- c) $N > P = J \ge L \ge R < S$

- d) $L > R > P > J = S \ge N$
- e) None of these

Directions (13-22): In these questions, relationship between different elements is show in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusion I and II follow

13). Statements: $Z = A \ge C < M, R > Z$ Conclusions: I.R > C II.A < M 14). Statements: $N > A \ge C$, P = N, $P \le L$ Conclusions: I.N > C II.L > A 15). Statements: $S \le K < M > W ≥ Z$ Conclusions: I.W < K II.Z = S 16). Statements: $S \le L < R$, $S \ge N$, P = NConclusions: I.P ≤ S II.R < N 17). Statements: $L > M \ge P \le S$, Q < P, M < KConclusions: I.K = L II.M ≥Q 18) Statements: $A \le D < C \ge B < E$ Conclusions: I. C > A II. A ≥ C 19) Statements: $P > L \le M < N > Q$ Conclusions: I. P > Q II. Q > M Conclusions: I. V > S II. V > T 20) Statements: $S \ge T = U < V \ge X$ 21) Statements: $M \le N > O \ge P = Q$ Conclusions: I. M ≥ Q II. Q < M 22) Statements: $U \le V < W = X < Y$ Conclusions: I. Y > V II. W > U 23) Statements: $Z \le K < D = S$; D < A < O; $G \ge D < R$ Conclusions: I. G > A, II. Z < R 24) Statements: E<L≤P=B; L = Q Conclusions: I. B>E, II. Q≤P 25) Statements: B>I=S≥A<J≤H; J>Q; K<Z Conclusions: I. H>Q, II. B<A 26) Statements: Z≥Y≥S>C≤Q≤L Conclusions: I. Z>Q, II. Y≤L 27) Statements: C<R≤N = M≥F; Q≥M<O; D≥L Conclusions: I. R≤F, II. C<Q 28) Statements: C<R≤N = M≥F; Q≥M<O; D≥L Conclusions: I. Q≥D, II. F<O 29) Statement: B≥C<M<E<A=F Conclusions: I. F>M, II.M<A 30) Statement: E≥M>R<A=B>Q Conclusions: I. E>B, II. R>Q

Type II - Coded Inequalities

Directions (Q. 31 - 35): In the questions given below, certain symbols are used with the following meaning:

- 1) A @ B means A is greater than B.
- 2) A + B means A is either greater than or equal to B.
- 3) A # B means A is smaller than B
- 4) A % B means A is either smaller than or equal to B.
- 5) A \$ B means A is equal to B

Now in each of the following questions assuming the given statements to be true find which of the two conclusions I and II given below them is/are definitely true?

Give answer:

- a) if only conclusion I is true.
- b) if only conclusion 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.

31. Statements: T \$ G, K @ P, M # T, P + M Conclusions: I. K @ T II. G \$ P

32. Statements: R + N, S % B, A @ R, B \$ A Conclusions: I. S \$ N II. A @ N

33. Statements: G \$ K, F @ J, K + Q, Q + F Conclusions: I. K \$ F II. F # K

34. Statements: W @ S, K % Z, U + W, S \$ K Conclusions: I. U @ K II. Z @ S

35. Statements: G $\$ E, D # K, E # S, K \times G Conclusions: I. S $\$ D II. D# E

Directions (Q. 36-40): In the following questions the symbol \$, @, *, ** and # are used with the following meaning.

1) A \$ B means A is greater than B

2) A @ B means A is either greater than or equal to B

3) A * B means A is equal to B

4) A ** B means A is smaller than B

5) A # B means A is either smaller than or equal to B

36. Statements: P @ Q, M # N, N**Q Conclusions: I. P \$ M II. N # P

37. Statements: D**X, F @ Y, D \$ F Conclusions: I. X @ Y II. Y # D

38. Statements: M**P, S \$ T, M @ T Conclusions: I. S * M II. T ** P

39. Statements: U*V, X \$ W, U**W

Conclusions: I. W \$ V II. U ** X

40. Statements: G \$ H, J # K, H * K Conclusions: I. H \$ J II. J * H

Directions (Q. 41-47): In the following questions the symbols +, *, ?, @ and S are used with the following meanings:

1) P + Q means P is neither smaller nor greater than Q.

2) P x Q means P is neither equal to nor smaller than Q.

3) P? Q means P is neither greater than nor equal to Q.

4) P @ Q means P is either greater than or equal to Q.

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5) P \$ Q means P is not equal to Q.

41. Statements: P\$Q, QxR, P + R

Conclusions: I. Q x P II. P ? Q III. R x P A. I only B. I and II only C. Either I or III only

D. All I,II and III E. None follows

42. Statements: A + B, B \$ C, C ? A

Conclusions: I. C \$ A II. B+C III. C ? A

A. None follows B. Only I C. Only II

D. Only III E. Only II & III

43. Statements: Y@Z, Z x Q, Q \$ P

Conclusions: I. Y? Q II. Y? P III. Z @ P

A. None follows B. Only I C. Only II

D. Only III E. Only II & III

44. Statements: E x F, F @ L, L + N

Conclusions: I. N + F II. E \times L III. E \times N

A. None follows B. Only I C. Only II

D. Only III E. Only II & III

45. Statements: H@J, J?K, K x M

Conclusions: I. H @ M II. M \times J III. H \times K

A. None follows B. Only I C. Only II

D. Only III E. Only II & III

46. Statements: M@T, T + V, V?E

Conclusions: I. V + M II. V ? M III. E x T

A. Only either I or II B. Only III C. Only I & II D. All I, II & III E. Only either I or II and III

47. Statements: H@J, J? K, K x M

Conclusions: I. H @ K II. M \times H III. H \times K

A. None follows B. Only I C. Only II

D. Only III E. Only II & III

Directions (Q. 48-50): In the following questions the symbols *, x, S, @ and + are used with the following meaning:

1) "PxQ" means "P is neither smaller nor greater than Q"

2) "P@Q" means "P is neither equal to nor greater than Q"

3) "P*Q" means "P is either equal to or smaller than Q"

4)"P+Q" means "P is neither equal to nor smaller than Q".

5) "P \$Q" means "P is not equal to Q".

48. Statements: D*F, F\$M, M@K

Conclusions: I. F @ K II. D @ K III. D * M

A. None follows B. Only I C. Only II

D. Only III E. Only II & III

49. Statements: K + M, M@R, R x T

Conclusions: I. K + T II. T + M III. R + K

A. None follows B. Only I C. Only II

D. Only III E. Only II & III

50. Statements: T@M, M*R, R x N

Conclusions: I. $M \times N$ II. M @ N III. $R \times N$ A. I only B. II and III only C. Either I or II only

D. All I,II and III E. None follows

Answers

Q.No	Ans								
1	С	11	В	21	D	31	D	41	D
2	С	12	D	22	Е	32	В	42	В
3	С	13	Α	23	В	33	С	43	Α
4	Α	14	E	24	Е	34	Α	44	E
5	С	15	D	25	Α	35	E	45	Α
6	С	16	Α	26	D	36	Α	46	E
7	D	17	D	27	В	37	D	47	Α
8	В	18	Α	28	В	38	В	48	Α
9	С	19	D	29	Е	39	В	49	С
10	С	20	В	30	D	40	С	50	С

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