TOPIC: - INEQUALITITES

PRACTICE SET

Directions (1-15): In each of the following questions, assuming the given statements to be true, find which of the following two conclusions 1 and II is / are directly 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 is true.

Direction (1-6)

1. **Statements:** R≥S=T≤U <V>Z
   Conclusions: I. Z<T **II.** S>V
2. **Statements:** P>R=S≥T≤V
   Conclusions: I. T<R **II.**R=T
3. **Statements:** A<B<C; C=D≤E
   Conclusions: I. B>E **II.** D>A
4. **Statements:** R<K,K≤ M, T≥J,M>T
   Conclusions: I. J<M **II.** R< M
5. **Statements:** W≤F,F=D,K≥J, D<K
   Conclusions: I. K>W **II.**F≤K
6. **Statements:** R≤D,D>W,B≥W
   Conclusions: I. W<R **II.** B>D

Directions (7-12)

'P b Q' means 'P is not smaller than 'Q.
'P+Q' means 'P is neither greater nor smaller than Q'.
'P s Q' means 'P is not greater than Q'.
'P αQ' means 'P is neither smaller than nor equal to Q'.
'P *Q' means 'P is neither greater than nor equal to Q'.

7. **Statements:** M b N, H $ Q, Q b M
   Conclusions: I. H + M **II.** Q b N
8. **Statements:** C αB, L*S, S $ C
   Conclusions: I. BαS **II.** CαL
9. **Statements:** I Bh, E α F, I+F
   Conclusions: I. EαI **II.** H*E
10. **Statements:** V+O, R+V, O b B
    Conclusions: I. R+B **II.** RαB
11. **Statements:** LαU, T+V, U*V

Conclusions: I. TαL **II.** U+T

12. Statements: A*B, A b Z, Y*Z

Conclusions: I. Y*B **II.** A b Y

Directions (13-15) in the following questions th symbols >, <, & ≥with the following meanings.

'A > B' means 'A is neither smaller nor greater than B.

'A < B' means A is neither smaller than nor equal to B.

'A ≥ B' means A is not greater than B.

13. Statements: P>T, S≤R, R<P, T=S

Conclusions: I. S<**T** **II.** S≤T

14. Statements: L<G, A<D, G>D,N> A

Conclusions: I. D=L **II.** L=A

15. Statements: Z=A, A<B,B>P, T≥P

Conclusions: I. P=A **II.** Z≤A

SOULTIONS

1. d
2. c
3. b
4. e
5. a
6. d
7. b
8. b
9. e
10. c
11. d
12. a
13. a
14. a
15. a