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## **Practice Sets on Reasoning Ability (Equality-Inequality)**

## Directions (1-5): Study the following information and answer the questions below:

P & Q - P is neither smaller than nor equal to Q

P@Q – P is neither greater than nor equal to Q

P\*Q - P is not smaller than Q

PQ - P is not greater than Q

P%Q – P is neither greater than nor smaller than Q

#### 1). Statement: A\*B, B&E, F&E, F\*D

Conclusion: 1) A&E 2) A&D

- a) Only conclusion 1 follow
- b) Only conclusion 2 follow
- c) Either 1 or 2 follow
- d) Both follow
- e) Neither conclusion 1 nor 2 follow

#### 2). Statements: A%B, B&C, C\*D, D\$E

Conclusion: 1) A & C 2) B \* D

- a) Only conclusion 1 follow
- b) Only conclusion 2 follow
- c) Either 1 or 2 follow
- d) Both follow
- e) Neither conclusion 1 nor 2 follow

#### 3). A % B, C & B, C \* D, E@D

Conclusions: 1) C % D 2) C & D

- a) Only conclusion 1 follow
- b) Only conclusion 2 follow
- c) Either 1 or 2 follow
- d) Both follow
- e) Neither conclusion 1 nor 2 follow

#### **4).** A&B, B @ C, C \$ D, E &D

Conclusion: 1) E&A 2) B\*E

- a) Only conclusion 1 follow
- b) Only conclusion 2 follow
- c) Either 1 or 2 follow
- d) Both follow
- e) Neither conclusion 1 nor 2 follow

#### 5). A\*B, B\$C, C&D, D\*E

Conclusion:1) A&D 2) E@C

- a) Only conclusion 1 follow
- b) Only conclusion 2 follow
- c) Either 1 or 2 follow
- d) Both follow
- e) Neither conclusion 1 nor 2 follow

#### Directions (6-10): Answer the following questions with these options:

- (A) only 1st follows
- (B) only 2nd follows
- (C) either 1st or 2nd

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ner 1st nor 2nd		
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(D) neither 1st nor 2nd(E) both 1st and 2nd

6). Statements:  $K > B \le G = A$ ,  $G \le P \le Q$ ,  $A \le M$ 

Conclusions:

 $I. \; Q > M$ 

II.  $Q \le M$ 

7). Statements:  $Q \ge P > K$ , P > F < C, A > W

Conclusions:

I. Q > F

II. A > C

8). Statements:  $Q > V < B \le P$ ,  $A \le M \le V$ , G < M

Conclusions:

I. P > G

II. A < Q

9). Statements: L > P, P < N,  $N \ge A$ 

Conclusions:

I. A < P II. L > N

**10).** Statements:  $K \ge T \ge J$ , R < L, L > O

Conclusions:

I. O > T

II. K > L

11). What should come in place of question mark in the expression

P>Q? R < T < S so as to make the expressions P>R and S>Q always true?

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

**12).** What should come in place of question mark in the expression A = B > C? D < E = F so as to make the expression F > C always true?

- a) >
- b) =
- c) >=
- d) <=
- e) both b and d

13). What should come in place of question mark to make B> D always true?

A = B > C ? D < E

- a) >
- b) <
- c) >=
- d) < =
- e) both a and c

**14).** In which of these expressions S > V be definitely false?

- a)  $S>P\geq Q=G\geq R>V$
- b)  $P \le A \le S \le T; V \ge O > T$
- c)  $V \le A \le L = R < S$

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- d)  $S>C>=F\leq H$ ;  $V\leq F$
- e)  $S>T=O\geq P$ ; V<J=P
- 15). Which of the following symbols should be placed in the blank spaces respectively(in the same order from left to right) in order to complete the given expression in such a manner that both 'D>S' as well as 'E $\leq$ B' definitely holds true? B \_ A \_ S \_ E \_ D
  - a)  $>, \ge, <, =$
  - b) >, >, ≥, <
  - c)  $\geq$ ,  $\geq$ ,  $\geq$ ,  $\leq$
  - d)  $\geq$ , =,  $\geq$ , <
  - e) Other than those given as options

### **Answers:**

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

#### **Solutions:**

- 1. A) A>=B>E<F>=D (A >E directly follow while A>D, not follow for all values of A,D)
- 2. A)  $A = B > C > = D \le E$  (A>C directly follows while B>=D doesn't follow as B is always greater than D)
- **3.** C) A = B < C > = D > E (C > D and C = D)
- **4. E)** A>B<C<=D<E

(E>A doesn't follow for all values of E,A and B>=E, both doesn't follow for all values of E, B)

- **5. B**) A>=B<=C>D>=E (A>D doesn't follow for all value of A and D and E<C always follow)
- **6.** C)  $Q \ge G = A \le M$ , this gives both Q and M less than equal to F

So either Q will be > M or Q will be  $\le$  M

**7. A)**  $Q \ge P > F$ , so Q > F

 $A > Q \ge P > F < C$ , so relation cant be determined between A and C

- **8. E)**  $P > V \ge M > G$ , so P > G
- $A \le V < Q$ , so P < Q
- **9. D)**  $A \le N > P$ , so no relationship between A and P
- L > P < N, both L and N less than P so no relationship between L and N
- **10. D)** O  $\leq$  L  $\geq$  R  $\leq$  T, so relation cant be determined between O and T

 $K \ge R \le L$ , so relation can't be determined between K and L

- 11. A) P>Q = R < T < S (Both expression true)
- **12.** E) A = B > C = D < E = F and A = B > C <= D < E = F (F>C true in both cases)
- 13. E) A = B > C > D < E and A = B > C > D < E in both cases B will be greater than D
- **14. B**) P<A≤S≤T;V≥O>T
- **15. D**) ≥, =, ≥,<