Directions (8 – 12): In these questions symbols @, $, #, &, % are used with different meanings as follows.

P @ Q means P is smaller than Q
P # Q means P is either Smaller than or equal to Q
P $ Q means P is greater than Q
P % Q means P is either greater than or equal to Q
P & Q means P is neither greater than nor 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.

8 statements: H # Q, Q @ F, L $ F
Conclusions:
I. L $ H
II. H # F

9 statements: J $ T, T @ V, V # M
Conclusions:
I. T # M
II. J % M

10. statements: U # D, D @ R, R % T
Conclusions:
I. U @ R
II. T $ D
11. Statements: M & L, L $ K, K @ R
Conclusions:
I. M & R
II. M @ R

12. Statements: J @ N, N % W, W $ V
Conclusions:
I. J % V
II. J @ W

Ans:
8. 1
9. 4
10. 1
11. 4
12. 4
Directions (Q. 11 – 15): In the following questions the symbols @, #, ©, *, and $ are used with the following meanings:

A @ B means A is not greater than B.
A # B means A is not smaller than B.
A © B means A is neither greater than nor smaller than B.
A * B means A is neither greater than nor equal to B.
A $ B means A is neither smaller than nor equal to B.

Now 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 conclusion I is true.
B) If only conclusion II is true.
C) If either conclusion I or II is true.
D) If neither conclusion I nor II is true.
E) If both conclusions I and II are true.

11. Statements: D @ T, T * E, E $ N
Conclusions:
I. E $ D  II. T $ N

Conclusion:
I. Q © F  II. Q * F

13. Statements: K * T, T $ F, F # R
Conclusions:
I. K $ R  II. F * K
14. Statements: M © R, R $K, K #A

Conclusion:
I. M © A  II. M $ A

15. Statements: B @ V, V © M, J $M

Conclusions:
I. J $ B  II. J $ V

Answers:

11. A
12. C
13. D
14. B
15. E
Directions (6-10): Each of the questions below has a few statements, followed by three conclusions numbered I, II, III. Read the conclusions and then decide which of the conclusions can be logically derived.

6. Statement:
P > Q
R < Q
S > P
P < M

Conclusion:
I. M > S
II. R < M
III. Q = S

1. Only I is true
2. Only II is true
3. Only III is true.
4. Only I & III is true
5. All are true

7. Statement:
A < B
C > N
O = B
N > A

Conclusion:
I. B > C
II. B < C
III. C > O
1. Only III & Either I or II is true
2. Only II & III is true
3. Only Either I or II is true
4. All I, II & III are true.
5. None of these

8. Statement:
   T < E
   D < F
   T > F
   R > D

   Conclusion:
   I. F < E
   II. T > D
   III. R > T

1. Only II & III are true
2. Only I & II are true
3. All I, II & III are true
4. None are true
5. None of these

9. Statement:
   V > W
   Y < Z < X
   W > Z
Conclusion:
I. V > Z
II. Y < W
III. X > V

1. Only III is true.
2. Only I & II is true
3. Only I & III is true.
4. Only II & III is true
5. None of these

Statement:
H > P < Q
L > T
L < H

Conclusion:
I. T < H
II. L < Q
III. P > T

1. Only I is true.
2. Only I & II is true
3. None are true.
4. Only III is true
5. All are true
Answers:

6.
(2) S > P > Q > R, P < M
I. M > S is not true.
II. R < M is true.
III. Q = S is not true.

7.
(3) C > N > A < B = O
I. B > C
II. B < C
III. C > O
Only Either I or II is true.
Either B is greater or smaller or equal to C.

8.
(2) E > T > F > D < R
I. F < E is true
II. T > D
III. R > T

9.
(2) V > W > Z < X, Y < Z
I. V > Z is true
II. Y < W is true
III. X > V is not true.
Only I & II is true
10.
(1) \( T < L < H > P < Q \)
I. \( T < H \) is true
II. \( L < Q \) is not true
III. \( P > T \) is not true
Directions (Q.1-10): In these questions a relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give answer

A) If only conclusion I is true
B) If only conclusion II is true
C) If either conclusion I or II is true.
D) If neither conclusion I nor II is true.
E) If both conclusion I and II is true.

1. Statements: C >S≥R<U, N>R=P
Conclusions:
I. C>P  II. S>P

2. Statements: Q=W>X≤B, L>W
Conclusions:
I. L>B  II. Q<L

Conclusions:
I. V>Y  II. H>V

For Ques (4-5). Statements: J≤K<L=N, J≥C=Q<B

4. Conclusions:
I. B≥K  II. Q≤L

5. Conclusions:
I. N>C  II. K≥Q
6. Statements: B ≥ N = S > L, P ≥ N
Conclusions:
I. B ≥ L  II. P > L

7. Statements:
Q > M ≥ K < R, H ≤ Q
Conclusions: I. H > K  II. Q > R

8. Statements: L ≥ M = N, C < I ≤ N
Conclusions:
I. M > I  II. L > C

9. Statements: S = T ≤ Q, P > J ≥ S
Conclusions:
I. P > T  II. J ≥ Q

10. Statements: W < X = S > Y = Z
Conclusions:
I. X > Z  II. Z < S

Ques. (11-15) in the given Questions, assuming the given statements to be true. Find which of the given four conclusions Numbered I, II, III, IV is /are definitely True and give your ans accordingly.

11. Statements: S > M ≥ D > H ≤ R ≤ T < W
Conclusions:
I. S > H  II. W > H
III. R < W  IV. M > T
A) Only I, II and III are true.
B) Only II is true.
C) Only I and II are true.
D) Only I and either II or IV are true.
E) All I, II, III and IV are true.

12. Statements: M>U>L≤N; L≥Y>A
Conclusions:
I. Y<N
II. M>N
III. N=Y
IV. M>A
A) Only either II or III is true.
B) Only IV and either I or III are true.
C) Only IV is true.
D) Only II is true.
E) Only III is true.

13. Statements: J≥A>D=E; L<A<M
Conclusions:
I. M<J
II. J>L
III. D>L
IV. E>M
A) Only II is true.
B) Only I and III are true.
C) None is true.
D) Only II and IV are true.
E) Only I and II are true.

14. Statements: Y>F≤O≤P; F≥U<T
Conclusions:
I. Y>P
II. T<F
III. O>T
IV. P<U
A) Only I is true.
B) Only II is true.
C) Only III is true.
D) None is true.
E) Only I and IV are true.

15. Statements: M>H≥Y≤R<U=Z≥E
Conclusions:
I. M>R  II. Z≤R
III. R>E  IV. Z>H
A) Only I and II are true.
B) Only IV is true.
C) None is true.
D) Only II and IV are true.
E) Only II and III are true.

Answers:
1. A
2. B
3. A
4. D
5. E
6. B
7. D
8. B
9. A
10. E
11. A
12. B
13. D
14. D
15. B