

**Direction: Q(1 – 5)**

**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**

**P\$Q – P is not greater than Q**

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

1. **Statements:** – A\*B, B\$C, C%D, D&E  
**Conclusions:** – a) A&C b) D&B
  - 1) Only conclusion 1 follows
  - 2) Only conclusion 2 follows
  - 3) Either 1 or 2 follow
  - 4) Both follow
  - 5) Neither conclusion 1 nor 2 follow
2. **Statements:** – A@B, B\$C, C\*D, D%E  
**Conclusions:** – a) A&D b) C&A
  - 1) Only conclusion 1 follows
  - 2) Only conclusion 2 follows
  - 3) Either 1 or 2 follow
  - 4) Both follow
  - 5) Neither conclusion 1 nor 2 follow
3. **Statements:** – A%B, B\*C, C@D, D&E  
**Conclusions:** – a) C\*A b) B@E
  - 1) Only conclusion 1 follows
  - 2) Only conclusion 2 follows
  - 3) Either 1 or 2 follow
  - 4) Both follow
  - 5) Neither conclusion 1 nor 2 follow
4. **Statements:** – M\*N, N%O, O%A, A&B  
**Conclusions:** – M&B b) N\$A
  - 1) Only conclusion 1 follows
  - 2) Only conclusion 2 follows
  - 3) Either 1 or 2 follow
  - 4) Both follow
  - 5) Neither conclusion 1 nor 2 follow
5. **Statements:** – A@B, B%C, C\*D, D%E  
**Conclusions:** – a) A&E b) B\*D
  - 1) Only conclusion 1 follows
  - 2) Only conclusion 2 follows
  - 3) Either 1 or 2 follow
  - 4) Both follow
  - 5) Neither conclusion 1 nor 2 follow
6. **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
7. **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
8. **Statements:**  $P = S, P < Q, R \leq Q, R \leq T$   
**Conclusions :** a)  $Q > S$  b)  $Q = T$   
a) Only one follow  
b) Only two follow  
c) Neither follows  
d) Both follow  
e) Either follow
9. **Statements:**  $- A > N, K \geq N, K > M, R > M$   
**Conclusions:**  $- a) M = N$  b)  $R \geq A$   
a) Only one follow  
b) Only two follow  
c) Neither follows  
d) Both follow  
e) Either follow  
e) None of these
10. **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

**Answer Key :**

1. 5
2. 2
3. 5
4. 1
5. 2
6. A
7. E
8. A
9. C
10. E

## SET – 2

### Direction: Q (1– 5)

P&Q means 'P' is greater than 'Q'.

P%Q means 'P' is smaller than 'Q'.

P@Q means 'P' is either greater than or equal 'Q'.

P\$Q means 'P' is either smaller than or equal to 'Q'.

P#Q means 'P' is equal to 'Q'

**1. Statements:** – A%B, B\$C, C#D, D&E

**Conclusions:** – 1) A&E 2) B#D

- 1) If only conclusion 1 is true
- 2) If only conclusion 2 is true
- 3) If either conclusion 1 or 2 is true
- 4) If neither conclusion 1 nor 2 is true
- 5) If both conclusions 1 and 2 are true

**2. Statements:** – A@B, B\$C, C#D, D&E

**Conclusions:** – 1) A & C 2) C & E

- 1) If only conclusion 1 is true
- 2) If only conclusion 2 is true
- 3) If either conclusion 1 or 2 is true
- 4) If neither conclusion 1 nor 2 is true
- 5) If both conclusions 1 and 2 are true

**3. Statements:** – A&B, B\$C, C&P, D@A

**Conclusions:** – 1) D&B 2) A&P

- 1) If only conclusion 1 is true
- 2) If only conclusion 2 is true
- 3) If either conclusion 1 or 2 is true
- 4) If neither conclusion 1 nor 2 is true
- 5) If both conclusions 1 and 2 are true

**4. Statements:** – A\$B, C&D, D#B, A\$E

**Conclusions:** – 1) D@A 2) C&B

- 1) If only conclusion 1 is true
- 2) If only conclusion 2 is true
- 3) If either conclusion 1 or 2 is true
- 4) If neither conclusion 1 nor 2 is true
- 5) If both conclusions 1 and 2 are true

**5. Statements:** – B&A, C#B, D#C, D&E

**Conclusions:** – 1) A&C 2) B&E

- 1) If only conclusion 1 is true
- 2) If only conclusion 2 is true
- 3) If either conclusion 1 or 2 is true
- 4) If neither conclusion 1 nor 2 is true
- 5) If both conclusions 1 and 2 are true

**6. What should come in place of question mark to make  $R > T$  always true?**

$$P = R > Q ? T < S$$

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

**7. Which of the following should be placed in the blank spaces in order to complete the given expression such that  $A < P$  is always false.**

$$\_ <= \_ < \_ > \_$$

- a) PNCA
- b) ALPC
- c) PNAL
- d) PLAC
- e) None of these

**8. Which of the following expression is definitely true if the expression  $A > B = C > D < E$  is always true?**

- a)  $B > E$
- b)  $D < A$
- c)  $E > C$
- d)  $D = B$
- e) None of these

**9. Which of the following symbol replace the question mark (?) in the given expression in order to make the expression  $A > C$  and  $E < B$  definitely true?**

$$A > B ? C >= D = E$$

- a) <=
- b) >
- c) <
- d) >=
- e) either a or b

**10. What should come in place of blank spaces to make  $A > C$  and  $C < D$  always true in the expression  $A\_B\_C\_D$ .**

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

**Answer Key :**

1. 4
2. 2
3. 1
4. 5
5. 2
6. E
7. C
8. B
9. B
10. C

## SET – 3

### Direction: Q(1 – 5)

'A @ B' means A Is not smaller than B

'A # B' means A is neither smaller than nor equal to B

'A % B' means A is neither smaller than nor greater than B

'A \$ B' means A is not greater than B

'A \* B' means A is neither greater than nor equal to B'

1. **Statements:** – P@Q, Q#R, R%S  
**Conclusions:** – 1) P#R 2) Q#S  
 1) If only conclusion 1 is true  
 2) If only conclusion 2 is true  
 3) If either conclusion 1 or 2 is true  
 4) If neither conclusion 1 nor 2 is true  
 5) If both conclusions 1 and 2 are true
2. **Statements:** – P \$ Q, Q \* R, R % S, S#T  
**Conclusions:** – 1) Q#T 2) R@P  
 1) If only conclusion 1 is true  
 2) If only conclusion 2 is true  
 3) If either conclusion 1 or 2 is true  
 4) If neither conclusion 1 nor 2 is true  
 5) If both conclusions 1 and 2 are true
3. **Statements:-** P \* Q, Q # K, K \$ J, J % T  
**Conclusions:** – 1) T@K 2) P#K  
 1) If only conclusion 1 is true  
 2) If only conclusion 2 is true  
 3) If either conclusion 1 or 2 is true  
 4) If neither conclusion 1 nor 2 is true  
 5) If both conclusions 1 and 2 are true
4. **Statements:** – P \$ W, W % X, X @ K, K\*L  
**Conclusions:** – 1) X@L 2) X\*L  
 1) If only conclusion 1 is true  
 2) If only conclusion 2 is true  
 3) If either conclusion 1 or 2 is true  
 4) If neither conclusion 1 nor 2 is true  
 5) If both conclusions 1 and 2 are true
5. **Statements:** – P \$ Q, Q % R, R \* S, S # T  
**Conclusions:** – 1) R # T 2) P\*S  
 1) If only conclusion 1 is true  
 2) If only conclusion 2 is true  
 3) If either conclusion 1 or 2 is true  
 4) If neither conclusion 1 nor 2 is true  
 5) If both conclusions 1 and 2 are true

**Direction: Q(6 – 8)**

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

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

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

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

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

6. **Statements:** –  $P \$ Q, Q @R, R \delta T$

**Conclusions:** – 1)  $P @T$  2)  $Q \delta T$  3)  $T \% Q$

1) only one follow

2) only two follow

3) only three follow

4) 1 and 2 follow

5) None of these

7. **Statements:** –  $B@D, D\%F, F\$C$

**Conclusions:** – 1)  $F@B$  2)  $C\delta D$  3)  $C\%B$

1) only 1 follow

2) only 2 follow

3) either 1 or 3 follow

4) Both 1 and 2 follow

5) none follow

8. **Statements:** –  $A\delta B, B\$C, C\%D$

**Conclusions:** -1)  $B@D$  2)  $D\delta A$  3)  $A\$C$

1) Only 1 follow

2) only 2 follow

3) only 3 follow

4) All follows

5) None follow

9. **What should be come in the place of question mark to make P always greater than R in the expression  $P > Q ? R \leq S = T$ .**

1) =

2) >

3) <

4)  $\leq$

5) Both a and b

10. **Which of the following should be place in the blank spaces of the expression  $P\_Q\_R\_S\_T$  from left to right in order to make  $P > Q$  and  $R > T$  always true.**

1)  $>, <, >, \geq$

2)  $>, >, \geq, <$

3)  $>, \geq, =, <$

4)  $>, =, <, =$

5) None of these



**Answer Key**

1. 5
2. 4
3. 1
4. 3
5. 2
6. 1
7. 5
8. 3
9. E
10. 1

**SET – 4**

- 1. What should come in place of question mark in the expression  $A \geq B ? C < P \geq Q$  so as to make A greater than C.**
  - a) =
  - b)  $\geq$
  - c)  $>$
  - d)  $<$
  - e) None of these
- 2. What should come in place of blank spaces to make  $P > R$  and  $R < S$  always true in the expression  $P\_Q\_R\_S$ .**
  - a)  $\geq, >, =$
  - b)  $\geq, <, =$
  - c)  $\geq, >, <$
  - d)  $=, \geq, =$
  - e) None of these
- 3. What should come in place of blank spaces in order to complete the given expression  $A\_B\_C\_D\_E$  in such a manner that makes the expression  $A > D$  and  $C > E$  always false**
  - a)  $<, <, >, =$
  - b)  $<, =, =, >$
  - c)  $<, =, =, <$
  - d)  $\geq, =, =, \geq$
  - e) None of these
- 4. Which of the following expression is always true if the expression  $A > B = C > D < T$  is definitely true.**
  - a)  $A > T$
  - b)  $T < C$
  - c)  $C = A$
  - d)  $A > D$
  - e) None of these
- 5. Which of the following symbols should replace the question mark in the given expression  $P > Q ? R \leq S = T$  in order to make the expressions  $P > R$  and  $T \geq Q$  always true.**
  - a)  $>$
  - b)  $<$
  - c)  $=$
  - d)  $\leq$
  - e) None of these

**Direction: Q(6 -10)**

**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**

**P\$Q – P is not greater than Q**

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

6. **A&B, B\$C, C%Q, D\*E**  
 1) A&D 2) D&B  
 1) Only conclusion 1 follow  
 2) Only conclusion 2 follow  
 3) Either 1 or 2 follow  
 4) Both follow  
 5) Neither conclusion 1 nor 2 follow
7. **A\$B, B\*C, C%Q, D@E**  
 1) C&A 2) E&C  
 1) Only conclusion 1 follow  
 2) Only conclusion 2 follow  
 3) Either 1 or 2 follow  
 4) Both follow  
 5) Neither conclusion 1 nor 2 follow
8. **A@B, B\*C, C%Q, D\*E**  
 1) B%E 2) A&B  
 1) Only conclusion 1 follow  
 2) Only conclusion 2 follow  
 3) Either 1 or 2 follow  
 4) Both follow  
 5) Neither conclusion 1 nor 2 follow
9. **A\$B, B@C, C&D, D%E**  
 1) C&A 2) C&E  
 1) Only conclusion 1 follow  
 2) Only conclusion 2 follow  
 3) Either 1 or 2 follow  
 4) Both follow  
 5) Neither conclusion 1 nor 2 follow
10. **A%B, B@C, C\*D, D&E**  
 1) B&D 2) C\*E  
 1) Only conclusion 1 follow  
 2) Only conclusion 2 follow  
 3) Either 1 or 2 follow  
 4) Both follow  
 5) Neither conclusion 1 nor 2 follow

## Answer Key

1. C
2. C
3. C
4. D
5. C
6. 5
7. 2
8. 5
9. 4
10. 5

## SET – 5

**Q(1-5) 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**

**P\$Q – P is not greater than Q**

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

1. **A\*B, B@C, C%D, D&E**  
**Conclusion: 1.A&E 2.C&E**
  - 1.Only conclusion 1 follow
  - 2.Only conclusion 2 follow
  - 3.Either 1 or 2 follow
  - 4.Both follow
  - 5.Neither conclusion 1 nor 2 follow
2. **A%B, B\*C, C@D, D%E**  
**Conclusion: 1. A&C 2. A%Q**
  - 1.Only conclusion 1 follow
  - 2.Only conclusion 2 follow
  - 3.Either 1 or 2 follow
  - 4.Both follow
  - 5.Neither conclusion 1 nor 2 follow
3. **A&B, B%Q, C&D, D\$E**  
**Conclusion: 1. A&D 2.E\*C**
  - 1.Only conclusion 1 follow
  - 2.Only conclusion 2 follow
  - 3.Either 1 or 2 follow
  - 4.Both follow
  - 5.Neither conclusion 1 nor 2 follow
4. **A@B, B\*C, C%D, D\*E**  
**Conclusion: 1.B%Q 2.A&B**
  - 1.Only conclusion 1 follow
  - 2.Only conclusion 2 follow
  - 3.Either 1 or 2 follow
  - 4.Both follow
  - 5.Neither conclusion 1 nor 2 follow
5. **P\*Q, Q%R, R@S, S\$T**  
**Conclusion: 1.S&Q 2.P\*T**
  - 1.Only conclusion 1 follow
  - 2.Only conclusion 2 follow
  - 3.Either 1 or 2 follow
  - 4.Both follow
  - 5.Neither conclusion 1 nor 2 follow
6. **What should be come in the place of question mark to make P always greater than R in the expression P>Q?R<=S=T.**

- 1.=
  - 2.>
  - 3.<
  - 4.<=
  - 5.Both a and b
7. **What should be come in the place of question mark to make  $C > F$  always true in the expression  $A > B < C ? D \geq E = F$ .**
- 1.=
  - 2.>
  - 3.<
  - 4.>=
  - 5.None of these
8. **what should placed in the blank spaces in the expression  $A\_B\_C\_D\_E$  to make  $A > E$  and  $B > D$  always true.**
- 1.=, >, <, =
  - 2.=, <, <, =
  - 3.>, <, >, =
  - 4.=, >, >=, =
  - 5.None of these
9. **What should come in the blank spaces in the expression  $P\_Q\_R\_S\_T$  to make the  $P < R$  always false.**
- 1.>, =, <, >
  - 2.=, <, =, >=
  - 3.>, <, =, >=
  - 4.<, =, <=, >
  - 5.None of these
10. **What should come in place of question mark to make  $B > E$  always true in the expression  $A > B = C \geq D ? E$ .**
- 1.<
  - 2.<=
  - 3.>
  - 4.=
  - 5.None of these

Answer Key :

1. 2
2. 3
3. 1
4. 5
5. 1
6. 5
7. 2
8. 4
9. 1
10. 3

## SET – 6

**Q(1-5) Study the following information to answer the given questions**

**A&B means A is neither greater than nor equal to B**

**A%B means A is neither smaller than nor greater than B**

**A\*B means A is not greater B**

**A\$B means A is greater than B**

**A@B means A is either greater than or equal to B**

1. **H\*K, K &N, N\$M**  
**I.N\$H                      II.M&H**
  1. Only I is true
  2. Only II is true
  3. Either I or II true
  4. Neither I nor II is true
  5. Both I and II are true
2. **H@K, K%L, L&N**  
**I.N@K                      II.L%H**
  1. Only I is true
  2. Only II is true
  3. Either I or II true
  4. Neither I nor II is true
  5. Both I and II are true
3. **R\$T, T@P, P@Q**  
**I.Q%T                      II.Q&T**
  1. Only I is true
  2. Only II is true
  3. Either I or II true
  4. Neither I nor II is true
  5. Both I and II are true
4. **B&A, A\*H, G@H**  
**I.G\$B                      II.A\*G**
  1. Only I is true
  2. Only II is true
  3. Either I or II true
  4. Neither I nor II is true
  5. Both I and II are true
5. **B%A, A@C, C\*D**  
**I.D@B                      II.C\*B**
  1. Only I is true
  2. Only II is true
  3. Either I or II true
  4. Neither I nor II is true
  5. Both I and II are true



6. What should be placed in place of question mark in equation  $A?H?E?B?D$  to make  $D \geq H$  definitely false ?
1.  $<, \leq, \leq, =$
  2.  $>, \geq, =, >$
  3.  $\leq, =, =, \leq$
  4.  $>, =, \leq, \leq$
  5. None of these
7. What should be placed in place of question mark in equation  $R?P?T?Q?S$  to make  $R > Q$  definitely true ?
1.  $>, =, >, \leq$
  2.  $\geq, =, \geq, \leq$
  3.  $=, \geq, \geq, =$
  4.  $\leq, <, =, \leq$
  5. None of these
8. Which of the following will be definitely true if the expression  $C < E > B = H \geq N \geq G$  is definitely True ?
1.  $H < C$
  2.  $N \geq C$
  3.  $G \leq B$
  4.  $E < N$
  5. None of these
9.  $U \geq W, P > U, W < T = R, Q = S < U$   
**I.  $P > U$     II.  $P > S$     III.  $U \geq R$     IV.  $T > S$**
1. Only I and II is true
  2. Only II and IV is true
  3. Only IV is true
  4. Only II is true
  5. None of these
10.  $M \leq N \leq P = T > R, Q > O \geq L = K > P$   
**I.  $M < K$     II.  $Q > L$     III.  $L \geq P$**
1. Only I is true
  2. Only II is true
  3. Only III is true
  4. Only I and II is true
  5. None of these

**Answer Key :**

1. 1
2. 4
3. 3
4. 5
5. 2
6. 2
7. 1
8. 3
9. 4
10. 4