Q:1 Which of the symbols should be placed in the blank spaces in the given expression so as to make R ≤ U and P > S definitely true?

P _ Q _ R _ S _ T _ U _ V

1. >, ≥, =, ≤, <, <
2. >, ≥, =, ≤, ≤, <
3. >, ≥, >, ≤, ≤, <
4. ≥, ≥, =, ≤, ≤, <
5. None of these

Q:2 Which of the symbols should be placed in the blank spaces in the given expression so as to make L ≥ O and R > N definitely true?

L _ M _ N _ O _ P _ Q _ R

1. ≥, ≥, =, ≤, ≤, <
2. >, ≥, >, ≤, ≤, <
3. =, ≥, >, ≤, ≤, <
4. >, ≥, =, ≤, <, <
5. None of these

Q:3 Directions: In the given question, two conclusions and three statements are given. You have to decide in which statement/statements, the given conclusions logically follow. Read the statements and conclusions carefully and answer the question.

Conclusions:
I. G > I
II. T > X

Statements:
I. S ≥ T ≥ U = V ≥ W > X, F = G ≥ H > I
II. S > T ≤ U < V > W = X, F > G = H < I
III. S = T > U ≤ V ≥ W = X, F < G ≤ H = I

1. Both statements I and II follow
2. Both statements II and III follow
3. Only statement I follows
4. Both statements I and III follow
5. Only statement III follows

Q:4 In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions. Mark your answer accordingly.

A. Only conclusion I is true
B. Only conclusion II is true
C. Both conclusions I and II are true
D. Either conclusion I or II is true
E. Neither conclusion I nor II is true

Statements: L= T ≥ U = V ≤ W > N, N = Y < Z > A < B

Conclusions:
I. W > Z
II. A > U

1. A
2. B
3. C
4. D
5. E

Q:5 In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions. Mark your answer accordingly.

A. Only conclusion I is true
B. Only conclusion II is true
C. Both conclusions I and II are true
D. Either conclusion I or II is true
E. Neither conclusion I nor II is true

Statements: O < P < Z > A < B, S = T ≥ U = P ≤ W > O

Conclusions:
I. S > A
II. P ≥ B

1. A
2. B
3. C
4. D
5. E

Q:6 In the given statement, the relationship between different elements is shown and it is followed by three conclusions. Choose the correct answer on the basis of the information given below.

Statements: 4 < 5 < 6; 6 ≤ 1 > 2; 8 > 9 ≥ 4

Conclusions:
I. 9 ≥ 6
II. 9 < 6
III. 4 < 1

1. Only Conclusion I follows
2. All Conclusions follow
3. Either Conclusion I or II and Conclusion III follow
4. Either Conclusion I or II follows
5. Both Conclusions I and II follow

Q:7 In the given statement, the relationship between different elements is shown and it is followed by three conclusions. Choose the correct answer on the basis of the information given below.

Statements: $11 > 10 = 9$; $11 < 12 ≤ 13$; $12 > 14 = 15$

Conclusions:

I. $13 ≥ 15$

II. $14 > 10$

III. $12 > 9$

1. Only Conclusion I follows

2. Only Conclusion III follows

3. Only Conclusion II follows

4. All follow

5. None follows

Q:8 In the given statement, the relationship between different elements is shown and it is followed by three conclusions. Choose the correct answer on the basis of the information given below.

Statements: $15 < 14 = 13$; $15 > 16 ≥ 17$; $16 ≤ 19 = 20$

Conclusions:

I. $19 ≥ 17$

II. $14 > 17$

III. $15 < 20$

1. Both Conclusions I and II follow

2. Both Conclusions II and III follow

3. Both Conclusions I and III follow

4. All follow

5. None follows

Q:9 In the given statement, the relationship between different elements is shown and it is followed by two conclusions. Choose the correct answer on the basis of the information given below.

Statement: In a weighing machine, on the left plate 1 Kg and 5 Kg iron bars were present and on the right plate 2 Kg, 0.5 Kg, and some x Kg rice were present.

Right side plate − Left side plate = 0.3 Kg

Conclusions:

I. $4 Kg > x > 3 Kg$

II. $x > 3.5 Kg$

1. Only I is true

2. Only II is true

3. Both I and II are true

4. Either I or II is true

5. Neither I nor II is true

Q:10 In the given statement, the relationship between different elements is shown and it is followed by three conclusions. Choose the correct answer on the basis of the information given below.

Statements:

$K = L > G ≤ Y < U, Y > W ≥ R = D < K, K = H > E < Q$

Conclusions:

I. $K ≤ R$

II. $R > E$

III. $Q > K$

1. Only conclusion II follows

2. Only conclusion III follows

3. None follows

4. All conclusions I, II and III follow

5. Both conclusion I and III follow

Answer Key

1. (2)	**2.** (1)	**3.** (3)	**4.** (5)	**5.** (5)
6. (3)	**7.** (2)	**8.** (1)	**9.** (3)	**10.** (3)

Answers and Solutions

Q:1 The correct answer is **Option 2** i.e. **>, ≥, =, ≤, ≤, <**
From Option I:
$P > Q ≥ R = S ≤ T < U < V$
$⇒ P > Q ≥ R = S → P > S$ **True**
$⇒ R = S ≤ T < U → R < U$ **False**
From Option II:
$P > Q ≥ R = S ≤ T ≤ U < V$
$⇒ P > Q ≥ R = S → P > S$ **True**
$⇒ R = S ≤ T ≤ U → R ≤ U$ **True**
As we get our answer so there is no need to solve further options.
Clearly, **Option 2** follows both conditions.
Hence, the correct answer is **>, ≥, =, ≤, ≤, <.**

Q:2 The correct answer is **Option 1** i.e. **≥, ≥, =, ≤, ≤, <**
From Option I:
$L ≥ M ≥ N = O ≤ P ≤ Q < R$
$⇒ L ≥ M ≥ N = O → L ≥ O$ **True**
$⇒ N = O ≤ P ≤ Q < R → N < R$ or $R > N$ **True**
As we get our answer so there is no need to solve further options.
Clearly, Option 1 follows both conditions.
Hence, the correct answer is **≥, ≥, =, ≤, ≤, <.**

Q:3 The correct answer is **Option 3** i.e. **Only statement I follows**
From Statement I:
$S ≥ T ≥ U = V ≥ W > X, F = G ≥ H > I$
$⇒ G ≥ H > I → G > I$ **Follows**
$⇒ T ≥ U = V ≥ W > X → T > X$ **Follows**
From Statement II:
$S > T ≤ U < V > W = X, F > G = H < I$
$⇒ G = H < I → G < I$ **Doesn't Follows**
$⇒ T ≤ U < V > W = X$ i.e. opposite signs between
T and X $→ T > X$ **Doesn't follow**
From Statement III:
$S = T > U ≤ V ≥ W = X, F < G ≤ H = I$
$⇒ G ≤ H = I → G ≤ I$ **Doesn't Follows**
$⇒ T > U ≤ V ≥ W = X$ i.e. opposite signs between

T and X $→ T > X$ **Doesn't follow**
Clearly, Only Statement I follows the conclusions.
Hence, the correct answer is **Only statement I follows.**

Q:4 The correct answer is **Option 5** i.e. **E**
I. $W > Z =$ (**False**) $(W > N = Y < Z)$ opposite symbols is between the elements.
II. $A > U =$ (**False**) $(U = V ≤ W > N = Y < Z > A)$ opposite symbols is between the elements.
Hence, the correct answer is **E.**

Q:5 The correct answer is **Option 5** i.e. **E**
I. $S > P =$ (**False**) $(S = T ≥ U = P ≤ W > O < Y < Z > A)$
II. $P ≥ B =$ (**False**) $(P ≤ W > O < Y < Z > A < B)$ opposite symbols is between the elements.
Hence the correct answer is **E.**

Q:6 The correct answer is **Option 3** i.e. **Either Conclusion I or II and Conclusion III follow**
Statements: $4 < 5 < 6; 6 ≤ 1 > 2; 8 > 9 ≥ 4$
$⇒ 8 > 9 ≥ 4 < 5 < 6 ≤ 1 > 2$
Conclusions:
I. $9 ≥ 6 →$ **False** $(9 ≥ 4 < 5 < 6$ i.e. Opposite sign between the elements$)$
II. $9 < 6 →$ **False** $(9 ≥ 4 < 5 < 6$ i.e. Opposite sign between the elements$)$
III. $4 < 1 →$ **True** $(4 < 5 < 6 ≤ 1$ i.e $4 < 1)$
Conclusion I and II make complementary pairs.
Hence, the correct answer is **Either Conclusion I or II follows and Conclusion III follows.**

Q:7 The correct answer is **Option 2** i.e. **Only Conclusion III follows**
Statements: $11 > 10 = 9; 11 < 12 ≤ 13; 12 > 14 = 15$
$⇒ 13 ≥ 12 > 11 > 10 = 9; 12 > 14 = 15$
Conclusions:
I. $13 ≥ 15 →$ **False** $(13 ≥ 12 > 14 = 15$ i.e. $13 > 15)$
II. $14 > 10 →$ **False** $(14 < 12 > 11 > 10$ i.e. Opposite sign between the elements$)$
III. $12 > 9 →$ **True** $(12 > 11 > 10 = 9$ i.e $12 > 9)$
Hence, the correct answer is **Only Conclusion III follows.**

Q:8 The correct answer is **Option 1** i.e. **Both Conclusions I and II follow**

Statements: $15 < 14 = 13; 15 > 16 ≥ 17; 16 ≤ 19 = 20$
$⇒ 13 = 14 > 15 > 16 ≥ 17; 16 ≤ 19 = 20$
Conclusions:
I. $19 ≥ 17 →$ **True** $(19 ≥ 16 ≥ 17$ i.e $19 ≥ 17)$
II. $14 > 17 →$ **True** $(14 > 15 > 16 ≥ 17$ i.e $14 > 17)$
III. $15 < 20 →$ **False** $(15 > 16 ≤ 19 = 20$ i.e. Opposite sign between the elements$)$
Hence, the correct answer is **Both Conclusions I and II follow.**

Q:9 The correct answer is **Option 3** i.e. **Both I and II are true**
Statement: Right plate - Left plate = 0.3 Kg
$(2 + 0.5 + x) - (1 + 5) = 0.3$
$x = 3.8$
Conclusions:
I. 4 Kg $> x > 3$ Kg: **True** $($as $x = 3.8$ which is greater than 3 and less than 4$)$
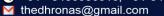II. $x > 3.5$ Kg: **True** $($as $x = 3.8$ Kg$)$
Hence, the correct answer is **Only II is true.**

Q:10 The correct answer is **Option 3** i.e. **None follows**
The given statements can be concluded as:
$K = L > G ≤ Y > W ≥ R = D < K = H > E < Q$
I. $K ≤ R →$ **False** $(K = L > G ≤ Y > W ≥ R$, signs between the elements are opposite$)$
II. $R > E →$ **False** $(R = D < K = H > E$, signs between the elements are opposite$)$
III. $Q > K →$ **False** $(K = H > E < Q$, signs between the elements are opposite$)$
Hence, the correct answer is **None follows.**