Inequality - Solved Examples

In the following question, some symbols are used with the letters having the following meanings as illustrated below -

R*S suggests that R is not higher than S

R@S suggests that R is neither shorter than nor equal to S

R!S suggests that R is neither higher than nor equal to S

R\$S suggests that R is neither shorter nor higher than S

R#S suggests that R is not shorter than S

Now, in each of the following questions, assuming the given statements to be valid, find out which of the two conclusions I and II given below them is /are definitely valid.

Q1 - Statements: P@Q, Q!R, R\$S

Conclusions:

I. S#P

II. S#Q

Give answer -

A - If only conclusion I is valid.

B - If only conclusion II is valid.

C - If either conclusion I or II is valid.

Answer - D

Explanation

Neither S is higher than or equal to P nor S is higher than or equal to Q. Hence option D is correct.

In the following question, some symbols are used with the letters having the following meanings as illustrated below -

R*S suggests that R is not higher than S

R@S suggests that R is neither shorter than nor equal to S

R!S suggests that R is neither higher than nor equal to S

R\$S suggests that R is neither shorter nor higher than S

R#S suggests that R is not shorter than S

Now, in each of the following questions, assuming the given statements to be valid, find out which of the two conclusions I and II given below them is /are definitely valid.

Q 2 - Statements: A@B, B!C, C\$D

Conclusions:

I. D@B

II. D*A

Give answer -

A - If only conclusion I is valid.

B - If only conclusion II is valid.

C - If either conclusion I or II is valid.

Answer - A

Explanation

Here only D is higher than B. Hence option A is correct.

In the following question, some symbols are used with the letters having the following meanings as illustrated below -

R*S suggests that R is not higher than S

R@S suggests that R is neither shorter than nor equal to S

R!S suggests that R is neither higher than nor equal to S

R\$S suggests that R is neither shorter nor higher than S

R#S suggests that R is not shorter than S

Now, in each of the following questions, assuming the given statements to be valid, find out which of the two conclusions I and II given below them is /are definitely valid.

Q 3 - Statements: P#S, S@R, P*N

Conclusions:

I. N\$R

II. P@R

Give answer -

A - If only conclusion I is valid.

B - If only conclusion II is valid.

C - If either conclusion I or II is valid.

Answer - B

Explanation

Here only P is higher than R. Hence option b is correct.

In the following question, some symbols are used with the letters having the following meanings as illustrated below -

R*S suggests that R is not higher than S

R@S suggests that R is neither shorter than nor equal to S

R!S suggests that R is neither higher than nor equal to S

R\$S suggests that R is neither shorter nor higher than S

R#S suggests that R is not shorter than S

Now, in each of the following questions, assuming the given statements to be valid, find out which of the two conclusions I and II given below them is /are definitely valid.

Q 4 - Statements: N\$S, S@R, R#Q, Q#T

Conclusions:

- I. N@R
- II. R#T

Give answer -

- A If only conclusion I is valid.
- B If only conclusion II is valid.
- C If either conclusion I or II is valid.
- D If neither conclusion I or II is valid.

Answer - E

Explanation

Both the conclusions are valid, hence option E is correct.

In the following question, some symbols are used with the letters having the following meanings as illustrated below -

R*S suggests that R is not higher than S

R@S suggests that R is neither shorter than nor equal to S

R!S suggests that R is neither higher than nor equal to S

R\$S suggests that R is neither shorter nor higher than S

R#S suggests that R is not shorter than S

Now, in each of the following questions, assuming the given statements to be valid, find out which of the two conclusions I and II given below them is /are definitely valid.

Q 5 - Statements: P!S, S#N, N@R, P!Q

Conclusions:

- I. Q@S
- II. S@R

Give answer -

- A If only conclusion I is valid.
- B If only conclusion II is valid.
- C If either conclusion I or II is valid.
- D If neither conclusion I or II is valid.

Answer - B

Explanation

Only S is higher than R is correct.

In the following question, some symbols are used with the letters having the following meanings as illustrated below -

R*S suggests that R is not higher than S

R@S suggests that R is neither shorter than nor equal to S

R!S suggests that R is neither higher than nor equal to S

R\$S suggests that R is neither shorter nor higher than S

R#S suggests that R is not shorter than S

Now, in each of the following questions, assuming the given statements to be valid, find out which of the two conclusions I and II given below them is /are definitely valid.

Q 6 - Statements: C\$D, D@E, D!G, C#P, P@N

Conclusions:

I. D#P

II. C!G

Give answer -

A - If only conclusion I is valid.

B - If only conclusion II is valid.

C - If either conclusion I or II is valid.

Answer - E

Explanation

Both the conclusions are valid. Hence option E is correct.

In the following question, some symbols are used with the letters having the following meanings as illustrated below -

R*S suggests that R is not higher than S

R@S suggests that R is neither shorter than nor equal to S

R!S suggests that R is neither higher than nor equal to S

R\$S suggests that R is neither shorter nor higher than S

R#S suggests that R is not shorter than S

Now, in each of the following questions, assuming the given statements to be valid, find out which of the two conclusions I and II given below them is /are definitely valid.

Q7 - Statements: Z\$R, R*Q, Q#P, P!K

Conclusions:

I. Z#Q

II. P!Z

Give answer -

A - If only conclusion I is valid.

B - If only conclusion II is valid.

C - If either conclusion I or II is valid.

Answer - D

Explanation

Neither I nor II is valid. Hence option D is correct.

In the following question, some symbols are used with the letters having the following meanings as illustrated below -

R*S suggests that R is not higher than S

R@S suggests that R is neither shorter than nor equal to S

R!S suggests that R is neither higher than nor equal to S

R\$S suggests that R is neither shorter nor higher than S

R#S suggests that R is not shorter than S

Now, in each of the following questions, assuming the given statements to be valid, find out which of the two conclusions I and II given below them is /are definitely valid.

Q8 - Statements: P#S, S@R, P*N

Conclusions:

- I. N\$S
- II. N@S

Give answer -

- A If only conclusion I is valid.
- B If only conclusion II is valid.
- C If either conclusion I or II is valid.
- D If neither conclusion I or II is valid.

Answer - C

Explanation

Here either N is higher than or equal to S. Hence option C is chosen.

In the following question, some symbols are used with the letters having the following meanings as illustrated below -

R*S suggests that R is not higher than S

R@S suggests that R is neither shorter than nor equal to S

R!S suggests that R is neither higher than nor equal to S

R\$S suggests that R is neither shorter nor higher than S

R#S suggests that R is not shorter than S

Now, in each of the following questions, assuming the given statements to be valid, find out which of the two conclusions I and II given below them is /are definitely valid.

Q 9 - Statements: M#Q, Q\$Z, M*N

Conclusions:

I. N\$Z

II. M@Z

Give answer -

A - If only conclusion I is valid.

B - If only conclusion II is valid.

C - If either conclusion I or II is valid.

Answer - B

Explanation

Here only M is higher than Z. Hence option B is correct.

In the following question, some symbols are used with the letters having the following meanings as illustrated below -

R*S suggests that R is not higher than S

R@S suggests that R is neither shorter than nor equal to S

R!S suggests that R is neither higher than nor equal to S

R\$S suggests that R is neither shorter nor higher than S

R#S suggests that R is not shorter than S

Now, in each of the following questions, assuming the given statements to be valid, find out which of the two conclusions I and II given below them is /are definitely valid.

Q 10 - Statements: A#B, B@C, A*D

Conclusions:

I. D\$B

II. D@B

Give answer -

A - If only conclusion I is valid.

B - If only conclusion II is valid.

C - If either conclusion I or II is valid.

Answer - C

Explanation

Here either D is higher than B or equal to B. Hence option C is chosen.