



Date : 17th Dec 2023

Logical Reasoning - Syllogism - SSC

English

Q:1 In the following question three statements are given below followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read both the conclusions and decide which of the given conclusions logically follows from the given statements.

Statements:

- I. All Cheap are Expensive.
- II. No Expensive is Worth.
- III. Some Worth is Useless.

Conclusions:

- I. Some Cheap being Worth is a possibility.
- II. Some Useless are Expensive.
- 1. Only conclusion I is true
- 2. Both conclusion I and II are true
- 3. Neither conclusion I nor II is true
- 4. Only conclusion II is true

Q:2 In the question below are given some statements followed by some conclusions numbered I, II, and III. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts.

Statements:

- I. Some markers are erasers.
- II. Some Erasers are Balls.
- III. No ball is a lamp.

Conclusions:

- I. Some markers are lamps.
- II. No lamp is a marker.
- III. No markers are erasers.
- 1. Either I or II follows.
- 2. Only II follows.
- 3. Only III follows.
- 4. None follows.

Q:3 In the question below are given three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements.

Statements:

- No office is a company.
- All companies are factories.
- No factory is organisation.

Conclusions:

- I. No office is a factory.
- II. No company is an organisation.
- 1. Only conclusion I follows
- 2. Only conclusion II follows
- 3. Either conclusion I or II follows
- 4. Neither conclusion I nor II follows

Q:4 Three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

- All mountains are rivers
- Some mountains are water
- Some rivers are seas

Conclusions:

- I. Some seas are water
- II. Some mountains are rivers
- 1. Only conclusion I follows
- 2. Only conclusion II follows
- 3. Both I and II follow
- 4. None of them

Q:5 In the following questions two statements are given below followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and decide which of the given conclusions logically follows from the given statements.

Statements:

- I. Some Chairs are Tables.
- II. All Tables are Doors.

Conclusions:

- I. All Chairs are Doors.
- II. Some Chairs are not Doors.
- 1. Only conclusion I follows
- 2. Only conclusion II follows
- 3. Both conclusions I and II follow
- 4. Either conclusion I or II follows

Q:6 In the following question three statements are given below followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read both the conclusions and decide which of the given conclusions logically follows from the given statements.

Statements:

- I. All Cheap are Expensive.
- II. No Expensive is Worth.
- III. Some Worth is Useless.

Conclusions:

- I. Some Cheap being Useless is a possibility.
- II. Some Cheap is Worth.
- 1. Only conclusion I is true
- 2. Both conclusion I and II are true
- 3. Neither conclusion I nor II is true
- 4. Only conclusion II is true

Q:7 In the questions, two statements are given, followed by two conclusions I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statements:

Some yellow is red.
Some black is yellow.

Conclusions:

- I. Some yellow is black.
- II. Some black being red is a possibility.
- 1. Only conclusion I follows
- 2. Only conclusion II follows
- 3. Either conclusion I or II follows
- 4. Both conclusions I and II follow

Q:8 In the question below there are four statements followed by three conclusions I, II & III. You have to take the four given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the four statements disregarding commonly known facts.

Statements:

No math is sanskrit
Some sanskrit is biology

All physics is civics
Some physics is biology.

Conclusions:

- I. No sanskrit is civics
- II. Some maths is biology
- III. Some physics is sanskrit.
- 1. Only conclusion I follows
- 2. Only conclusion II follows
- 3. Either conclusion I or conclusion II follows
- 4. None of the above

Q:9 Three statements are followed by three conclusions numbered I, II, and III. You have to consider these statements to be true, even if they seem at variance from commonly known facts. Decide which of the given conclusions logically follows from the given statements.

Statements:

- 1. All papers are stationary.
- 2. Some stationary are books.
- 3. No book is a pen.

Conclusions:

- I. Some pens are books.
- II. No paper is a pen.
- III. Some stationary is paper.
- 1. Only conclusions II and III follow.
- 2. Only conclusion I follows.
- 3. Only conclusions I and II follow.
- 4. Only conclusion III follows.

Q:10 In the question two statements are given, followed by three conclusions, I, II, and III. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement 1: Some doctors are engineers.

Statement 2: All engineers are lawyers.

Conclusion I: Some lawyers are doctors.

Conclusion II: All lawyers are engineers.

Conclusion III: Some engineers are doctors.

- 1. Only conclusion I follows
- 2. Both Conclusions I and III follow
- 3. All conclusions I, II and III follows
- 4. Both Conclusions II and III follows

Answer Key

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

Answers and Solutions

Q:1 The correct answer is **Option 3** i.e. **Neither conclusion I nor II is true**

The possible diagram is as follows:



For conclusions:

I. Some Cheap being Worth is a possibility → **False**
(All Cheap are Expensive and no Expensive is Worth is given. So, no Cheap can be Worth)

II. Some Useless are Expensive → **False** (Some Useless are Expensive is a possibility but not definite)

Hence, the correct answer is **neither conclusion I nor II is true**.

Q:2 The correct answer is **Option 1** i.e. **Either I or II follows**

We can draw the following Venn diagram from the given statements:



Conclusion:

I. Some markers are lamps: **False** (it is possible but not definite, as no direct relationship between the two is given).

II. No lamp is a marker: **False** (it is possible but not definite, as no direct relationship between the two is given).

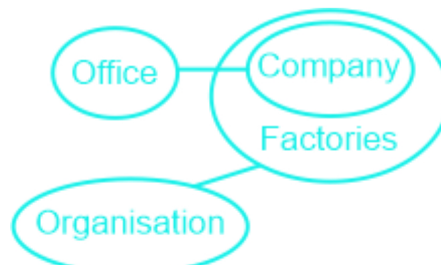
III. No markers are erasers: **False** (given that some markers are erasers).

Conclusions I and II form complementary pairs.

Hence, the correct answer is **Either I or II follows**.

Q:3 The correct answer is **Option 2** i.e. **Only conclusion II follows**

The figure deduced from the statements,



Conclusions:

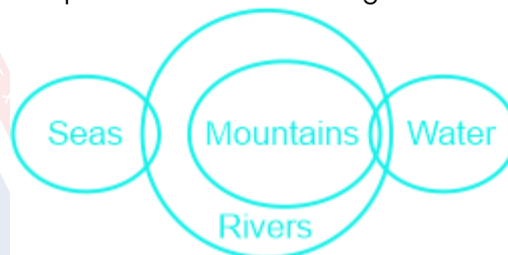
I. No office is factory: **False** (It is possible but not definite)

II. No company is organisation: **True** (All companies are factories and no factory is an organization)

Hence, the correct answer is **only conclusion II follows**.

Q:4 The correct answer is **Option 2** i.e. **Only conclusion II follows**

The possible least Venn diagram would be:



Conclusions:

I. Some seas are water: **Does not Follow** (It is given in statements and clearly visible in the Venn diagram that some mountains are a part of water but there is no relation between seas and water. So, it does not follow).

II. Some mountains are rivers: **Follows** (It is given in statements and clearly visible in the Venn diagram that some rivers are a part of mountains. So, it follows).

Hence, the correct answer is **Only conclusion II follows**.

Q:5 The correct answer is **Option 4** i.e. **Either conclusion I or II follows**.

The possible Venn diagram is as follows:



Application

For conclusions:

I. All Chairs are Doors → **False** (All Chairs are Doors is a possibility but not definite).

II. Some Chairs are not Doors → **False** (Some Chairs are not Doors is a possibility but not definite)

Conclusion I and II are complementary pairs.

Thus, **Either conclusion I or II follows**.

Hence, the correct answer is **Either conclusion I or II follows**.

Q:6 The correct answer is **Option 1 i.e. Only conclusion I is true**

The possible diagram is as follows:



Conclusions:

I. Some Cheap being Useless is a possibility → **True** (It is possible as there is no negative relation between the elements)

II. Some Cheap is Worth → **False** (All cheap are expensive, no expensive is worth which means no cheap is worth as well so, some cheap is worth is false)

Hence, **Neither conclusion I nor II is true** is the correct answer.

Q:7 The correct answer is **Option 4 i.e. Both conclusions I and II follow**

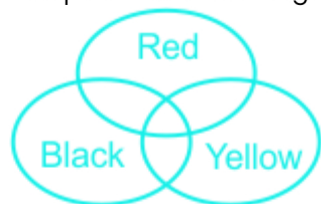
The least possible Venn diagram is given below:



I. Some yellow is black: **True** (some black is yellow)

II. Some black being red is a possibility: **True** (the possibility exists)

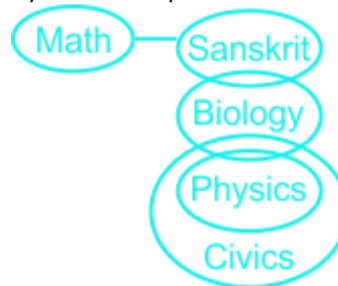
The possible Venn diagram is given below:



Hence, the correct answer is **both conclusions I and II follow**.

Q:8 The correct answer is **Option 4 i.e. None of the above**

By the least possible Venn diagram:



Conclusions:

I. No sanskrit is civics: **False** (This is a possibility but not definite as no direct relationship between the two is given.)

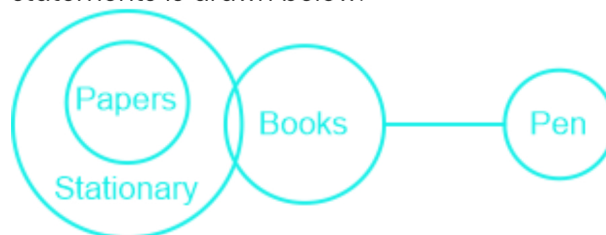
II. Some maths is biology: **False** (This is a possibility but not definite as no direct relationship between the two is given.)

III. Some physics is sanskrit: **False** (This is a possibility but not definite as no direct relationship between the two is given.)

Hence, the correct answer is **None of the above**.

Q:9 The correct answer is **Option 4 i.e. Only conclusion III follows**.

The least possible Venn Diagram for the given statements is drawn below:



Conclusions:

I. Some pens are books → **False** (It is possible but no definite conclusion can be drawn.)

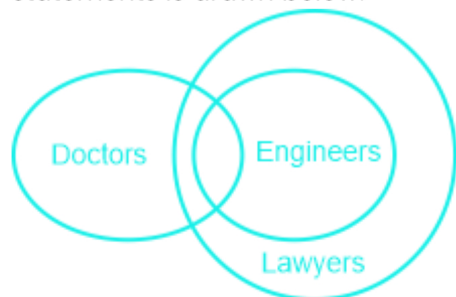
II. No paper is a pen → **False** (It is possible but no definite conclusion can be drawn.)

III. Some stationary is paper → **True** (As all papers are stationary, and some stationary are papers is also true.)

Hence, **Only conclusion III follows**.

Q:10 The correct answer is **Option 2** i.e. **Both Conclusion I and III follow.**

The least possible Venn Diagram for the given statements is drawn below:



Conclusions:

I. Some lawyers are doctors → **True** (As some doctors are engineers, and all engineers are lawyers, so, some lawyers are doctors is also true.)

II. All lawyers are engineers → **False** (It is possible but no definite conclusion can be drawn.)

III. Some engineers are doctors → **True** (As some doctors are engineers, so, some engineers are doctors is also true.)

Hence, **Both Conclusion I and III follow.**

