



Date : 13th Jan 2024

Logical Reasoning – Syllogism

English

Q:1 Direction: In each question are given some statements followed by some conclusions, one of which does not logically follow from the given statements. That conclusion is your answer.

Statements:

Some Aqua are Teal
Some Magenta are olive
Some Teal are not olive

Conclusions:

A. Some Aqua are Magenta is a possibility
B. All Teal can never be olive
C. All Magenta are Teal is a possibility
D. Some olive are Teal
E. All olive can be Aqua

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

Q:2 Directions: In each of the questions given below there are three statements followed by three Conclusions numbered I, II and III. You have to take the given statements to be true even if they seem at variance from commonly known facts. Read all the Conclusions and then decide which Conclusions logically follow from the given statements disregarding commonly known facts.

Statements:

Only a few Money are Dollar.
No Dollar are Rupee.
All Yen are Rupee.

Conclusions:

I. All Yen are Dollar is a possibility.
II. Some Money can never be Rupee.
III. Some Yen are Money.

1. Only I follows
2. Only II follows
3. Only III follows
4. Only I and II follow
5. None follows

Q:3 Directions: In each of the questions given below there are three statements followed by three Conclusions numbered I, II and III. You have to take the given statements to be true even if they seem at variance from commonly known facts. Read all the Conclusions and then decide which

Conclusions logically follow from the given statements disregarding commonly known facts.

Statements:

No Fragrance is Perfume.
Only a few Perfume are Flower.
Only a few Flower are Aqua.

Conclusions:

I. Some Flower can never be Fragrance
II. All Aqua are Perfume is a possibility.
III. Some Perfume is not Aqua

1. All follow
2. Only II and III follow
3. Only I and III follow
4. Only I and II follow
5. None of these

Q:4 Directions: In each of the questions given below there are three statements followed by three Conclusions numbered I, II and III. You have to take the given statements to be true even if they seem at variance from commonly known facts. Read all the Conclusions and then decide which Conclusions logically follow from the given statements disregarding commonly known facts.

Statements:

No Plant are Water.
Some Plant are Flower.
Only a few Seed are Flower.

Conclusions:

I Some Water are not Seed.
II. All Plant are Seed a possibility.
III. All Flower are Water is a possibility.

1. Only I follows
2. Only II follows
3. Only I and III follow
4. Only III follows
5. None follows

Q:5 Direction: In each of the questions given below there are three statements followed by three Conclusions numbered I, II and III. You have to take the given statements to be true even if they seem at variance from commonly known facts. Read all the Conclusions and then decide which Conclusions logically follow from the given statements disregarding commonly known facts.

Statements:



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All Satellite are Space.
Only a few Space are Moon.
Some Moon are Earth.

Conclusions:

- I. All Space are Earth is a possibility.
- II. All Satellite is Earth is a possibility.
- III. Some Moon is not Satellite
- 1. Only I follows
- 2. Only II follows
- 3. Only III follows
- 4. Only I and II follow
- 5. None of these

Q:6 Directions: In the following question three statements are followed by three conclusions numbered I, II, and III. 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 statements and decide which of the given conclusion/conclusions logically follows from the given statements.

Statements:

- I. Only Boys are Girls
- II. Some Brothers are Sisters
- III. No Boy is Brother

Conclusions:

- I. All Sisters being Boys is a possibility
- II. Some Boys are not Sisters
- III. Some Girls are Brothers
- 1. Only conclusion I follows
- 2. Only conclusion II follows
- 3. All conclusions follow
- 4. None follows
- 5. Only conclusion III follows

Q:7 Directions: In each question given below are some 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 with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

Statements:

All cards are sheets.
All files are cards.
Some sheets are papers.

Conclusions:

- I. All files being papers is a possibility.
- II. All files are not sheets.
- 1. Only conclusion I follows
- 2. Only conclusion II follows
- 3. Either conclusion I or II follows
- 4. Neither conclusion I nor II follows
- 5. Both conclusions I and II follow

Q:8 Directions: Below are the given statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.

Statements:

- I. No P is G.
- II. All G is Z.

Conclusions:

- I. Some P is Z.
- II. All P can be Z.
- 1. Only conclusion I follows
- 2. Only conclusion II follows
- 3. Either conclusion I or II follow
- 4. Both conclusion I and II follow
- 5. Neither conclusion I nor II follows

Q:9 Direction: In the following question three statements are 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 statements and decide which of the given conclusion/conclusions logically follows from the given statements.

Statements:

- I) No RNA is DNA.
- II) Some cells are muscles.
- III) All cells are DNA.

Conclusions:

- I) All DNAs are muscles.
- II) All cells being RNA is a possibility.
- 1. If only conclusion II follows
- 2. If neither conclusion I nor II follows
- 3. If only conclusion I follows
- 4. If both conclusions I and II follows
- 5. If either conclusion I or II follows



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Q:10 Direction: In the following question two statements are 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 statements and decide which of the given conclusion/conclusions logically follows from the given statements.

Statements:

No month is a year.

Some years are weeks.

Conclusions:

I. No week is a year.

II. Some weeks are years.

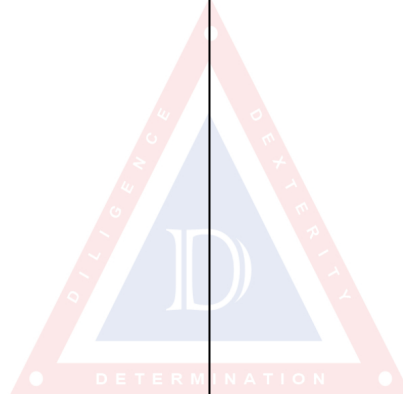
1. Only II follows

2. Neither I nor II follows

3. Only I follows

4. Either I or II follows

5. Both I and II follow



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Answer Key

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

Answers and Solutions

Q:1 The correct answer is **Option 4** i.e. **D**

Diagram:



Conclusions:

A. Some Aqua are Magenta is a possibility- **True**- (No direct relation between Aqua and Magenta, hence in case of possibility it is true).

B. All Teal can never be olive- **True**- (Some teal is not Olive is given; hence all teal is definitely not olive).

C. All Magenta are Teal is a possibility- **True**- (No direct relation between magenta and Teal, hence in case of possibility it is true).

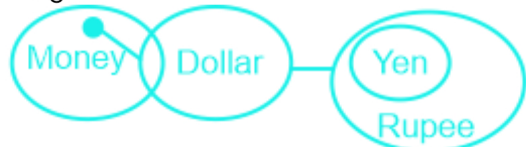
D. Some olive are Teal- **False**- (Some teal is not olive is given but we cannot say about some olive is teal, hence it is false).

E. All olive can be Aqua- **True**- (No direct relation between Olive and Aqua, hence in case of possibility it is true).

Hence, the correct answer is **D**.

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

Diagram:



Conclusions:

I. All Yen are Dollar is a possibility – **False** (No Rupee is Dollar and all Yen is Rupee, hence No yen is dollar).

II. Some Money can never be Rupee – **True** (Some Money is dollar and no dollar is rupee, hence some money can never be rupee).

III. Some Yen are Money – **False** (It is possible but

not definite as there is no direct relationship between Yen and Money).

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

Q:3 The correct answer is **Option 4** i.e. **Only I and II follow**

Diagram:



Conclusions:

I. Some Flower can never be Fragrance – **True** (No Fragrance is Perfume and only a few Perfume is Flower, hence some Flower which is a part of Perfume can never be Fragrance).

II. All Aqua are Perfume is a possibility – **True** (It is possible but not definite as there is no direct relationship between Aqua and perfume is given, hence in case of possibility it is true).

III. Some Perfume is not Aqua – **False** (It is possible but not definite as there is no direct relationship between perfume and aqua).

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

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

Diagram:



Conclusions:

I. Some Water are not Seed – **False** (It is possible but not definite as there is no direct relationship between Water and Seeds).

II. All Plant are Seed a possibility – **True** ((It is possible but not definite as there is no direct relationship between Plant and Seeds, hence in case of possibility it is true).

III. All Flower are Water is a possibility- **False** (No water is Plant and some Plant is Flower, so some Flower which is part of Plant is definitely not water).

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

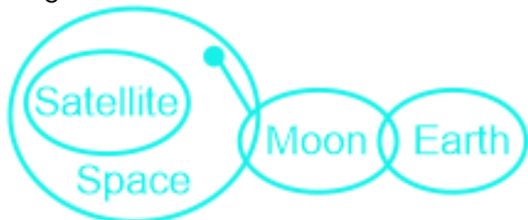
Q:5 The correct answer is **Option 4** i.e. **Only I and II follow**

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Diagram:



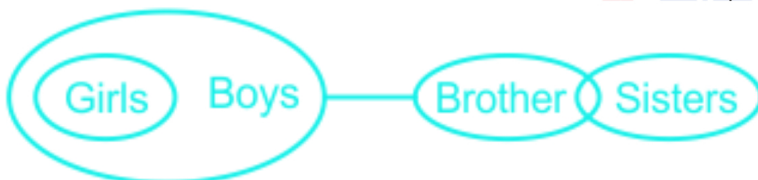
Conclusions:

- I. All Space are Earth is a possibility- **True** (It is possible but not definite as there is no direct relationship between space and earth, hence in case of possibility it is true).
- II. All Satellite is Earth is a possibility- **True** (It is possible but not definite as there is no direct relationship between satellite and earth, hence in case of possibility it is true).
- III. Some Moon is not Satellite- **False** (It is possible but not definite as there no direct relationship between Moon and satellite is given).

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

Q:6 The correct answer is **Option 2** i.e. **Only conclusion II follows**

The least possible diagram is as follows:



Conclusions:

- I. All Sisters being Boys is a possibility: **False** (As it is given that no Boys is Brother and some Brothers are Sisters, therefore, all Sisters being Boys is not possible).
 - II. Some Boys are not Sisters: **True** (As Only Boys are Girls, this means all Girls can never be Sisters, so some Boys are not Sisters).
 - III. Some Girls are Brothers: **False** (As Only Boys are Girls, this means there is no positive relationship between Girls and any other element)
- Therefore, the correct answer is **Only conclusion II follows.**

Q:7 The correct answer is **Option 1** i.e **Only conclusion I follows**

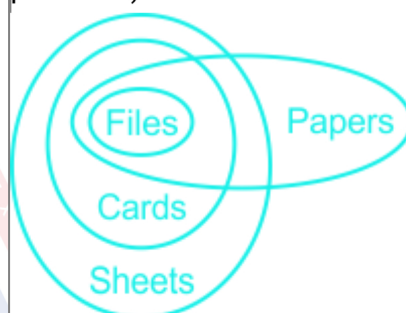
Understanding

The least possible Venn diagram is:



Conclusions:

- I. All files being papers is a possibility → **True** (As there is no negative relationship between files and papers so, in case of possibility all files being papers is possible).



- II. All files are not sheets → **False** (This is definitely false, as All files are part of cards and all cards are part of sheets).

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

Q:8 The correct answer is **Option 2** i.e. **Only conclusion II follows**

The least possible diagram for the given statements is :



Conclusions:

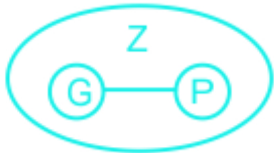
- I. Some P is Z: **False** (It is possible but not definite as there is no direct relation between both the elements)
- II. All P can be Z: **True** (There is no negative

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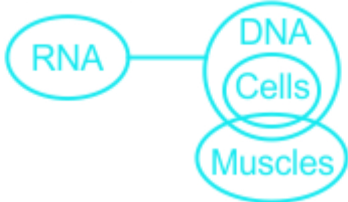
relationship between P and Z so, all P can be Z therefore, in case of possibility it is true).



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

Q:9 The correct answer is **Option 2** i.e **If neither conclusion I nor II follows**

By making the least possible Venn diagram:



Conclusions:

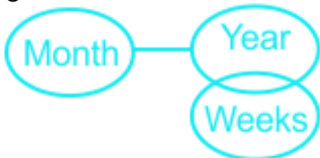
I) All DNAs are muscles → **False** (This is possible but not definite).

II) All cells being RNA is a possibility → **False** (As All cells are part of DNA, and RNA and DNA have a negative relationship with each other, so the possibility is false).

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

Q:10 The correct answer is **Option 1** i.e. **Only II follows**

By making the least possible Venn diagram we get,



Conclusions:

I. No week is a year: **False** (As it is already given that some years are weeks, therefore, a negative relationship between Week and Year is never a possibility.)

II. Some weeks are years: **True** (As it is the reverse of the given statement that some years are weeks.)

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