

Syllogism

Complete Course on General Aptitude - GATE 2026/27

QUESTIONS ON SYLLOGISM

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1

Q.1 Arguments : All professors are researchers.

Some scientists are professors.

Which of the given conclusions is logically valid and is inferred from the above arguments :

- (A) All scientists are researchers**
- (B) All professors are scientists**
- (C) Some researchers are scientists**
- (D) No conclusion follows**

[GATE 2013 : IIT Bombay (CH)]

Q.2 Statements : All women are entrepreneurs.

Some women are doctors.

Which of the following conclusions can be logically inferred from the above statements?

- (A) All women are doctors.**
- (B) All doctors are entrepreneurs.**
- (C) All entrepreneurs are women.**
- (D) Some entrepreneurs are doctors.**

[GATE 2014 : IIT Kharagpur (EC-1, ME-1)]

Q.3

Statements :

No manager is a leader.

All leaders are executive.

Conclusions :

- I. No manager is an executive.**
- II. All executives are manager.**
- III. (A) Only conclusion I follows.**
- IV. (B) Only conclusion II follows.**
- V. (C) Neither conclusion I nor II follows.**
- VI. (D) Both conclusion I and II follow.**

[GATE 2014 : IIT Kh (IN, ME-3, MT, PI)]

Q.4

Statements :

All film star are playback singers.

All film directors are film stars.

Conclusions :

I. All film directors are playback singers.

II. Some film stars are film directors.

(A) Only conclusion I follows.

(B) Only conclusion I nor II follows.

(C) Neither conclusion I nor II follows.

(D) Both conclusions I and II follow.

[GATE 2015 : IIT Kanpur (EC-2, ME-2)]

Q.5

Fact 1 : Humans are mammals.

Fact 2 : Some humans are engineers.

Fact 3 : Engineers build house.

If the above statements are facts, which of the following can be logically inferred?

- I. All mammals build houses.**
- II. Engineers are mammals.**
- III. Some humans are not engineers.**

(A) II only

(B) III only

(C) I, II and III

(D) I only

[GATE 2016 : IISc Bangalore (CE-2, MT, PI)]

Q.6

Some tables are shelves.

Some shelves are chairs.

All chairs are benches.

Which of the following conclusions can be deduced from the preceding sentences?

(i) At least one bench is a table.

(ii) At least one shelf is a bench.

(iii) At least one chair is a table.

(iv) All benches are chairs.

(A) Only (i)

(B) Only (ii)

(C) Only (ii) and (iii)

(D) Only (iv)

[GATE 2016 : IISc Bangalore (CE-2, MT, PI)]

Q.7

Sentences :

All benches are beds.

No bed is a bulb.

Some bulbs are lamps.

Which of the following can be inferred?

(i) Some beds are lamps. (ii) Some lamps are beds.

(A) Only (i)

(B) Only (ii)

(C) Both (i) and (ii)

(D) Neither (i) nor (ii)

[GATE 2017 : IIT Roorkee (CE-1, CH)]

Q.8

Statements :

- (i) Some roses are red.**
- (ii) All red flowers fade quickly.**
- (iii) Some roses fade quickly.**

Which of the following statements can be logically inferred from the above statements?

- (A) If (i) is true & (ii) is false, then (iii) is false**
- (B) If (i) is true & (ii) is false, then (iii) is true**
- (C) If (i) & (ii) are true, then (iii) is true**
- (D) If (i) & (ii) are false, then (iii) is false**

[GATE 2018 : IIT Guwahati (ME-1)]

Q.9

Statement :

All purple are green.

All black are green.

Conclusion :

I. Some black are purple

II. No black is purple

Based on the above statements and conclusions,

which one of the following options is logically

CORRECT?

(A) Both conclusion I & II are correct.

(B) Only conclusion I is correct.

(C) Only conclusion II is correct.

(D) Either conclusion I or II is correct.

[GATE 2021 : IIT B (EC)]

Q.10

Statement :

Some football players play cricket.

All cricket players play hockey.

Among the options given below, the statement that logically follows from the two statements 1 and 2 above, is

(A) All football players play hockey.

(B) Some football players play hockey.

(C) No football player plays hockey.

(D) All hockey players play football.

Q.11

Statement :

All entrepreneurs are wealthy.

All wealthy are risk seekers.

Conclusion :

I : All risk seekers are wealthy.

II : Only some entrepreneurs are risk seekers.

**Based on the above statements and conclusions
which one of the following options is CORRECT?**

- (A) Only conclusion I is correct.**
- (B) Only conclusion II is correct.**
- (C) Both conclusion I and II are correct.**
- (D) Neither conclusion I nor II is correct.**

[GATE 2021 : IIT B (ME-2)]

Q.12

Statement :

All bacteria are microorganisms.

All pathogens are microorganisms.

Conclusion :

I : Some pathogens are bacteria.

II : All pathogens are not bacteria.

**Based on the above statements and conclusions,
which one of the following options is logically**

CORRECT?

(A) Only conclusion I correct.

(B) Only conclusion II is correct.

(C) Either conclusion I or II is correct.

(D) Neither conclusion I nor II is correct.

[GATE 2021 : IIT B (CS-1)]

1.STATEMENTS: All dogs are fruits.

No chair is fruit

Some chairs are clowns.

Conclusions : I. Some clowns are dogs.

II. Some chairs are dogs.

III. No chair is dog.

IV. No dog is clown.

- a) None follows
- b) Only either I or IV follows
- c) Only either I or IV, and III follow
- d) Only either I or IV, and II follow
- e) Only either II or III follows and either I or IV follows

2.Statements: All fruits are vegetables.

All pens are vegetables.

All vegetables are rains.

• **Conclusions: I. All fruits are rains.**

II. All pens are rains.

III. Some rains are vegetables

a) **None follows**

b) **Only I and II follow**

c) **Only II and III follow**

d) **Only I and III follow**

e) **All follow**

3.Statements: some hills are rivers.

some rivers are deserts.

All deserts are roads.

• **Conclusions: I. Some roads are rivers.**

II. Some roads are hills.

III. Some deserts are hills.

a) **None follows**

b) **Only I and II follow**

c) **Only II and III follow**

d) **Only I follow**

e) **All follow**

4.Statements: All tigers are lions.

No cow is lion.

Some camels are cows.

• **Conclusions: I. Some lions are camels.**

II. No camel is tiger.

III. Some tigers are cows.

- a) None follows
- b) Only I follow
- c) Only II follow
- d) Only I follow
- e) Either I or II follows

5.Statements: Some towels are brushes.

No brush is soap.

All soaps are rats.

• **Conclusions: I. Some rats are brushes.**

II. No rat is brush.

III. Some towels are soaps

- a) None follows
- b) Only either I or II follow
- c) Only II follow
- d) Only I and III follow
- e) None of these

6.Statements: All flowers are toys

Some toys are trees.

Some angels are trees.

- **Conclusions: I. Some angels are toys.**
II. Some trees are flowers.
III. Some flowers are angels.

- a) **None follows**
- b) **Only I follow**
- c) **Only II follow**
- d) **Only I follow**
- e) **only I and III follow**

7.Statements: All trains are buses.

No room is bus.

All boats are rooms.

• **Conclusions: I. No boat is train.**

II. No bus is boat.

III. No train is room.

a) **None follows**

b) **Only I and II follow**

c) **Only II and III follow**

d) **Only I and III follow**

e) **All follow**

8.Statements: Some uniforms are covers.

All covers are papers.

All Papers are bags.

• **Conclusions: I. All covers are bags.**

II. Some bags are covers, papers and uniforms.

III. Some uniforms are not papers.

a) **None of these**

b) **Only I follow**

c) **Only I and II follow**

d) **Only III follow**

e) **All follow**

9.Statements: Some books are novels.

All novels are magazines.

Some magazines are journals.

• **Conclusions: I. Some novels are journals.**

II. Some books are magazines.

III. All books are magazines.

IV. No novels is a journal.

a) **Only II follows**

b) **Only III follows**

c) **Either conclusion I or II follows**

d) **Either conclusion I or IV and conclusion II follow**

10.Statements: Some fabrics are silks.

Some silks are cottons.

- **Conclusions: I. At least some cotton's are silks.**
II. At least some fabrics are cottons.
- a) Neither conclusion I nor II is true**
- b) Only II follows**
- c) Only I follows**
- d) Both I and II are true**
- e) Either I or II is true**

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▲ 1 • Asked by Saurabh

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9:34 71%

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Q. In a family there are 3 sons, 3 fathers, 2 Grand-fathers, 2 Grand sons, 1 Grand grand father, 1 Great grand sons. How many male members are in family?

Soln.

4

▲ 1 • Asked by Ayush

Question 8 of 13 question dpp

- $a+b$ means a is sister of b,
- $a-b$ means a is brother of b,
- $a \times b$ means a is daughter of b,
- $a \% b$ means a is mother of b.

8. How many females does this relationship shows ?

$$l + m - n + o - p \times q$$

- A. 2 B. 3 C. 4 D. Can't be determined