



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)]



Statements:

No manager is a leader.

All leaders are executive.

Conclusions:

- No manager is an executive.
- II. 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)]



Statements:

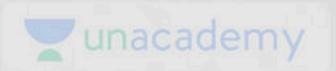
All film star are playback singers.

All film directors are film stars.

Conclusions:

- All film directors are playback singers.
- 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)]



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?

- 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)]



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)]



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)]



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 (ii) 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)]



Statement:

All purple are green.

All black are green.

Conclusion:

- 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.



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.



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)]



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.



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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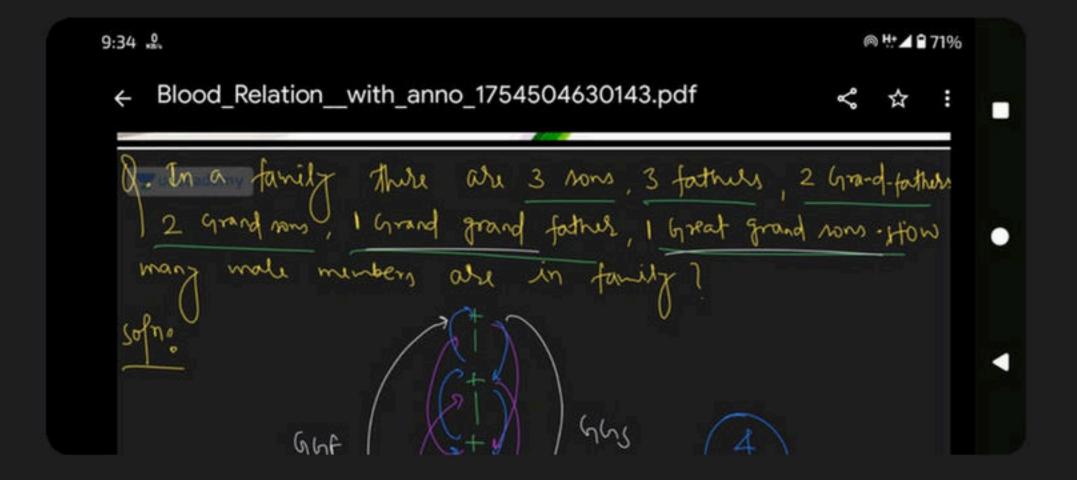
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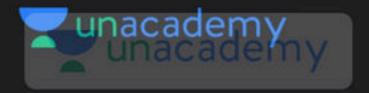
Any query.....?????



▲ 1 • Asked by Saurabh

Please help me with this doubt





▲ 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,
- >aXb means a is daughter of b,
- >a%b means a is mother of b.
- 8. How many females does this relationship shows?

A. 2

B. 3

C. 4

D. Can't be determined

