Conclusions Driven from the Affirmative or negative statements

(i) **Statement:**
All books are papers
Conclusions
a) some books are papers
b) Some papers are books
c) All books are papers

(ii) **Statement:**
No book is paper
Conclusions:
a) Non paper is book
b) Some books are not papers
c) some papers are not books
d) No book is paper

(iii) **Statement:**
Some books are papers
Conclusions:
a) Some papers are books
b) Some books are papers

(iv) **Statement:**
Some books are not papers
Conclusion
. Some books are not papers.

Directions (Q. Nos. 1-4) In each question below are two/ three statements followed by two Conclusions I and II you have to take the two/three 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 given statements disregarding commonly known facts.

Give answer
(1) If only Conclusion I follows
(2) If only Conclusion II follows
(3) If either Conclusion I or II follows
(4) If neither Conclusion I nor II follows
(5) If both Conclusions I and II follow

Either Conclusion

Note:

- **Subject (First term) and predicate (Last term) should be same.**
- **One conclusion should be positive, and another should be negative**
- **In both the conclusion nothing should be definite**

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1. **Statements**
   Some trees are plants.
   All bushes are plants.

Conclusion

I. At least some trees are bushes.
   Some trees are not bushes.

2.Statements

All bottles are glasses.
No cup is a glass

Conclusions

I. No bottle is a cup
II. At least some glasses are bottles.

3.Statements

All entrances are windows.
No gate is a window.

Conclusions

I. At least some windows are gates.
II. No gate is an entrance.

4.Statements

All windows are doors.
All entrances are windows.
No gate is a door.

Conclusions

I. At least some windows are gates.
II. No gate is an entrance.

Practice Questions

1. **Statements**
   All jungles are tigers.
   Some tigers are horses.

Conclusions

I. At least some horses are jungles.
II. Some tigers are jungle.

2. **Statements**
   All birds are tall.
   Some tall are hens.

Conclusions

I. Some birds are definitely hens.
II. Some hens are tall.

3. **Statements**
   All artists are smokers.
   Some smokers are drunkards.

Conclusions

I. All smokers are artists.
II. Some drunkards are definitely not smokers.

4. **Statements**
   Some hens are cows.
   All cows are horses.

Conclusions

I. Some horses are definitely hens.
II. At least some hens are horses.

5. **Statements**
   All buses are cars.

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Some cars are roads.

Conclusions

I. Some cars are buses.

II. At least some buses are roads.

6. **Statements**

Some pastries are toffees.

All toffees are chocolates.

Conclusions

I. Some chocolates are definitely toffees.

II. At least some toffees are not pastries.

7. **Statements**

Some players are singers.

All singers are tall.

Conclusions

I. Atleast some players are tall.

II. All players are tall.

8. **Statements**

All stones are water.

No water is clean.

Conclusions

I. Atleast some stones are clean.

II. No stone is clean.

9. **Statements**

Some phones are watches.

All watches are guns

Conclusions

I. All guns are watches.

II. Some guns are definitely phones.

10. **Statements** All umbrellas are aeroplanes.

Some aeroplanes are birds.

Conclusions

I. At least some umbrellas are aeroplanes.

I. Some birds are not umbrellas.

11. **Statements** No holiday is vacations.

Some vacations are trips.

Conclusions

I. No trip is a holiday.

II. At least some holidays are trips.

12. **Statements** Some kites are birds.

No kite is an aeroplane.

Conclusions

I. All aeroplanes are birds.

II. Some birds are definitely not kites.

13. **Statements** All metals are plastics.

All plastics are fibres.

Conclusions

I. Atleast some fibres are metals.

II. Some metals are not fibres.

14. **Statements** All roads are streets.

No street is a highway.

Conclusions

I. No highway is a road.

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II. All streets are roads.

15. **Statements** Some animals are plants.
Some plants are rocks.

Conclusions

I. All plants are animals.

II. Atleast some rocks are animals.

16. **Statements** Some trees are bushes.
All flowers are bushes.

Conclusions

I. Atleast some bushes are trees.

II. Atleast some flowers are trees.

17. **Statements** All colours are paints.
No paint is a brush.

Conclusions

I. At least some brushes are colours.

II. No brush is a colour.

18. **Statements** Some chemicals are organics.
All organics are fertilizers.

Conclusions

I. At least some fertilizers are chemicals.

II. All fertilizers are organics.

19. **Statements** No air is solid.
Some solids are liquids.

Conclusions

I. No liquid is air.

II. Some airs are definitely not liquids.

20. **Statements** All gems are diamonds.
All diamonds are rocks.

Conclusions

I. At least some rocks are gems.

II. All gems are rocks.

Type 2. Complementary Pair of Conclusions

In Drawing mediate inferences from given statements, students are required to be more attentive to select complementary pair of conclusions where neither of the conclusions is True
but a combination of both makes a complementary pair.
Same facts related to either – or case:

- **Subject (First term) and predicate (Last term) should be same.**
- **One conclusion should be positive, and another should be negative**
- **In both the conclusion nothing should be definite**

	1st conclusion type	2nd conclusion type
Case 1	All	Some not
Case 2	Some	Some not
Case 3	Some	No

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Examples

5. **Statements:**
All birds are goats.
No goat is flower.
Some flowers are mountains.
Some Mountains are nets.

Conclusions
Some nets are goat
I. No net is goat
Some mountains are birds.

(1) None follows
(2) Only I follow
(3) Either I or II follow
(4) Only II follows
(5) Only III follows

6. Statements
All shirts are hats.
No hat is suit.
Some rings are suits.
All rings' bangles.

Conclusions
I. Some rings are hats.
II. Some bangles are suits. No ring is hat

(1) Only I follow
(2) Only II follows
(3) Only III follows
(4) Either I or III follows
(5) Either I or III and II follows

7. Statements
Some days are nights.
Some nights are months.
Some months are years.
Conclusions
Some years are nights.
I. Some months are days.
II. No year is night.

(1) Only I follow
(2) Only II follows
(3) Only III follows
(4) Either I or III follows
(5) None of these

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Practice Questions

21. **Statements** Some nails are plates. Some plates are disks. All disks are mirrors. All mirrors are tyres.

Conclusions
I. Some tyres are plates.
I. Some tyres are definitely nails.
III. At least some mirrors are plates.

(1) I and II follow (2) I and III follows
(3) II and III follow (4) All of these

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(5) None of these

22. **Statements** Some beads are chairs. All chairs are trucks. Some trucks are bricks. All bricks are cars.
Conclusions
I. Some cars are chairs.
II. At least some cars are trucks.
III. Some trucks are definitely not beads.

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

23. **Statements** All flowers are houses. All houses are tigers. All tigers are goats. Some goats are bullocks.
Conclusions
I. Some goats are flowers.
II. Some tigers are flowers.
III. Some bullocks are tigers.

(1) I and follow
(2) II and III follow
(3) I and III follow
(4) All of these
(5) None of these

24. **Statements** Some dogs are cats. Some cats are horses. All horses are tigers
ConclusionI. Some tigers are cats.
II. Some horses are dogs.
III. Some tigers are dogs.

(1) None follows
(2) Only follows
(3) Only II follows
(4) Only III follows
(5) II and III follow

25. **Statements** All ropes are sticks. Some hammers are lakes. Some sticks are hammers.

Conclusions
I. Some lakes are ropes.
II. Some hammers are ropes.
III. Some lakes are sticks.

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

26. **Statements** Some doors are mangoes. All mangoes are bananas.

Conclusions
I. All bananas are mangoes.
II. All doors are bananas.
III.Some doors are bananas.

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IV. Some mangoes are doors.

(1) I and II follow
(2) Only I follows
(3) All follow
(4) III and IV follow
(5) None follows

27. **Statements** Some chairs are windows.
No window is sky.
Conclusions
I. No window is chair.
II. No chair is window.
III. Some windows are skies.
IV. Some chairs are skies.
(1) Either III or IV follows
(2) Either II or III follows
(3) Either II or IV follows
(4) All follow
(5) None follows

28. **Statements** No parrot is crow.
All crows are bats.
Conclusions
I. Some bats are parrots.
II. All bats are parrots.
III. Some bats are crows.
IV. Some bats are not crows.

(1) Either III or IV follows
(2) Only III follows
(3) II, III and IV follow
(4) I and II follow
(5) Either I or II follows

29. **Statements** All stars are planets.
All planets are trees.

Conclusions
I. All planets are stars.
II. All stars are trees.
III. All trees are plants.
IV. Some trees are stars.

(1) II and IV follow
(2) I and II follow
(3) Only III follows
(4) All follows
(5) None follow

30. **Statements**
Some chairs are shoes.
Some shoes are sticks.

Conclusions
I. Some chairs are sticks.
II. No chair is stick
III. All sticks are shoes.
IV. All shoes are chairs.

(1) Either I or II follows
(2) Either II or IV follows
(3) Only III follows
(4) I and II follow

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(5) Only II follows

TYPE 3. Possibility Case

Possible Case

In Conclusions IV and V, relation between tigers and dogs along with cats and dogs is of some type and the possibility of all case is being asked but rule says that All type possibility is always true in some type of relation.

Possible Case

In Conclusions II and VI, relation between tigers and cats along with cats and dogs is of some type and the possibility of some case is asked but rule says that some type possibility is never true in some type relation.

Given Exclusive proposition	Desired proposition	Possibility
All	All	$False$
Some	Some	$False$
Some	Some not	$True$
No	No	$False$
No	Some not	$False$
Some	All	$True$
Direct Relation	Some/ All	$True$
Note Indirect relation between two objects favours the possibility.		

Examples

8. Statements

All jungles are tigers.

Some tigers are horses.

Conclusions

I. Some tigers being jungles is a possibility.

II. All horses being jungles is a possibility.

➢ (2) According to the statements, Venn diagram is as follow

Conclusions

I. × (because some type of relation is already there)

II. √ (Indirect relation favours the possibility).

Hence only Conclusion II is true in possibility case.

9. Statements Some hens are cows. All cows are horses.

Conclusions

I. All horses being hens in a possibility.

II. Some hens not being horses is a possibility.

➢ (5) According to the statements, Venn diagram is as follow

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Conclusions

I. √ (Some type relation favours all type possibility)

II. √ (Some type relation favours some do not type possibility)

Hence, both Conclusions I and II are true in possibility case.

10. Statements All water is divine.
All temples are divine.

Conclusions

I. All water being temple is a possibility.

II. Some Devine not being temple is a possibility.

III.

Conclusions

I. √ (Indirect relation favours the possibility)

II. √ (Some type relation favours some not type possibility)

Hence, both Conclusions I and II are true in possibility case.

Directions (Q.Nos.31-50) In each of the question below are given statements are followed by two conclusions 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 and then decide which of the given conclusions logically follows from the statements disregarding commonly known facts.

Give answer
(1) If only Conclusion I follows
(2) If only Conclusion II follows
(3) If either Conclusion I or II follows
(4) If neither Conclusion I nor II follows
(5) If both Conclusions I and II follow

31. **Statements** Some books are toys.
No toy is red.

Conclusions

I. Many books are red.

II. All toys are books.

32. Statements

All books are pencils.
All pencils are pins.

Conclusions

I. Few pins are books.

II. No pin is a book.

33. **Statements**

All papers are files.
Some files are pens.

Conclusions

I. Each pen is files.

II. Some pens are papers.

34. **Statements**

All books are papers.
All papers are sticks.

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Conclusions
I. 79% sticks are books.
II. 25% sticks are papers.

35. **Statements**
Some chairs are steels.
Some steels are wood.
Conclusions
I. Much wood are chairs.
II. Most of wood are steels.

36. **Statements**
All stones are rocks.
Some rocks are black.
Conclusions
I. Only rocks are stones.
II. Atleast some blacks are rocks.

37. **Statements**
All keys are locks.
All locks are screws.
Conclusions
I. All screws are keys.
II. Very locks are keys.

38. **Statements**
Some books are pens.
No book is a pencil.
Conclusions
I. Some books are definitely pencils.
II. No pen is a pencil.

39. **Statements**
All dogs are monkeys.
No monkey is a cat.
Conclusions
I. No dog is a cat.
II. At least monkeys are cats.

40. **Statements**
Some phones are watches.
All watches are guns.
Conclusions
I.100% guns are watches.
II. Some guns are phones.

41. **Statements**
Some stones are bricks.
Some bricks are trees.
Conclusions
I. Some stones being trees is a possibility.
II. All trees are bricks.

42. **Statements**
Some whites are black.
No black is green.
Conclusions
I. Some whites being green is a possibility.
II. Atleast some whites are not green.

43. **Statements**
All flowers are stems.
All stems are roots.
Conclusions

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I. All roots are flowers.
II. All stems being flower is a possibility.

44. **Statements**
Some cities are villages.
Some towns are villages.
Conclusions
I. Some cities being town is a possibility.
II. Many cities are town.

45. **Statements**
All trays are erasers.
All pens are erasers.
Conclusions
I. All trays being pen.
II. Some pens being trays is a possibility.

46. **Statements**
Some chalks are wires.
Some wires are frames.
Conclusions
I. Some chalks are frames.
II. Some wires not being chalks is a possibility.

47. **Statements**
Some papayas are mangoes.
No mango is carrot.
Conclusions
I. Some papayas not being carrot is a possibility.
II. All mangoes being papaya is a possibility.

48. **Statements**
All dogs are rats.
Some rats are lizards.
Conclusions
I. Some dogs being lizard is a possibility.
II. All rats being dog is a possibility.

49. **Statements**
All lawyers are cheaters.
Some women are lawyers.
Conclusions
I. Some women are cheaters.
II. All cheaters being women is a possibility.

50. **Statements**
All readers are teachers.
All writers are teachers.
Conclusions
I. All writers being teachers is a possibility.
II. All teachers being writers is a possibility.

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Vedic Mathematics

Conversion of Exclusive Propositions

If the statement is of	Conversion	Illustration	Meaningful Conversion
Each / Every / Most of 100%	All	Each A are B	All A are B
Most of A are B	All A are B		
Much, More, Many, Very,	Some	Much A are b	Some A are B
A few, Almost		A few X are Y	Some X are Y
At least	Some	At least some A are B	Some A are B
Definitely	No use	Some A are definitely B Some A are B	
Some X are definitely not Y	Some X are not Y		
Only		Only A are B	All B are A
None but		None but A are B	All B are A
1% to 99%	Some	38% A are B	Some A are B
98% X are Y	Some X are Y		

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