Topic:
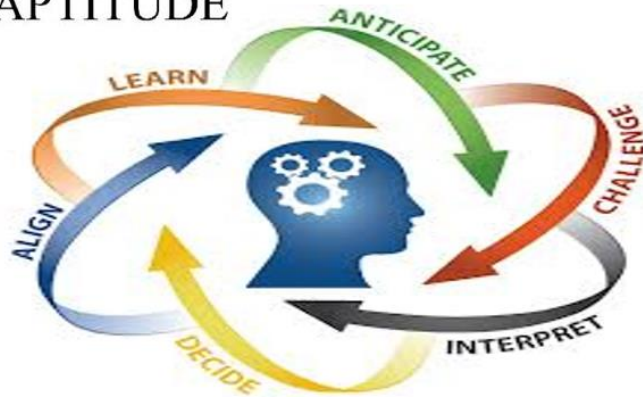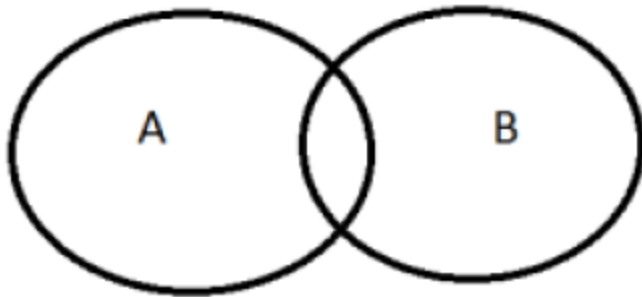# **Syllogism**
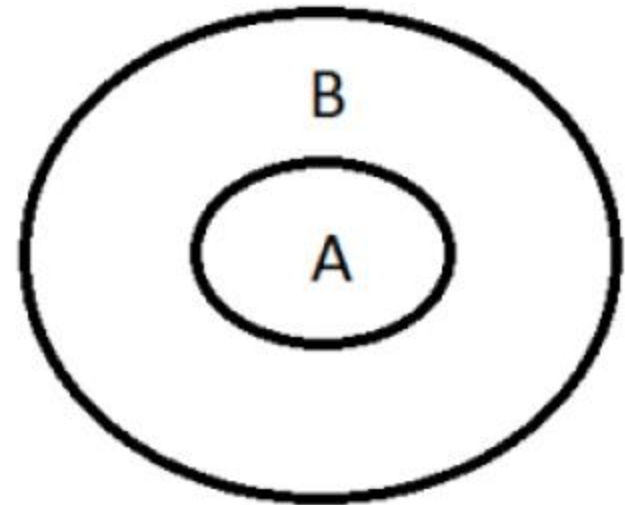
- There are 3 relations in syllogism.
1) Definite relationship.
2) Either and OR
3) Possibility

- <u>CONCEPT 1 Some A is B.</u>
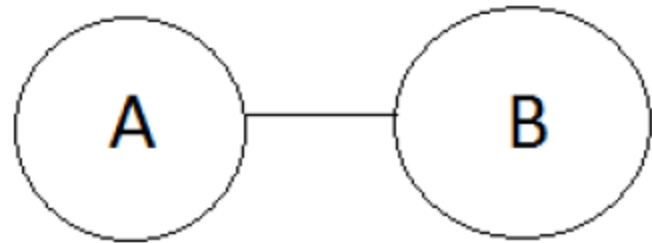- The Diagram for Some A is B is

- There are 2 definite conclusions,
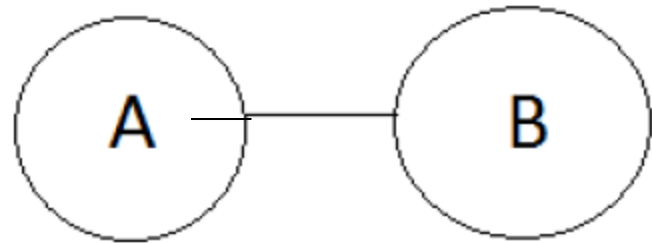- 1) Some A is B
- 2) Some B is A

- <u>CONCEPT 2 – All A is B</u>
- There are 3 definite Conclusions,

1) All A is B.

2) Some A is B.

3) Some B is A.

- <u>Concept 3 – No A is B</u>
- There are 4 definite Conclusions,

1) No A is B

2) No B is A

3) Some A is not B

4) Some B is not A

- <u>Concept 4 – Some A are not B</u>
- There are only 1 definite Conclusion,

1) Some A are not B.

- Note-

1) Positive statement not lead to negative statement and vice-versa.

2) Some- Many/ Maximum/Minimum/ Most of them/ 99%/ 50%. These are called particular statement.

3) All- Any/Every/Each/100%/All that. These are called universal statement.

Statements: Some Cats are Rats.

- All bats are tables.
- All Rats are Bats.

Conclusion: I. Some Cats are bats

- II. All bats are rats
- III. All tables are cats
- IV. All bats are cats
- 1. Only I & II follow
- 2. Only II follows
- 3. Only I & IV follow
- 4. None of these
- Ans:4
- Clearly, from the diagram Conclusion I is true. So option 4.
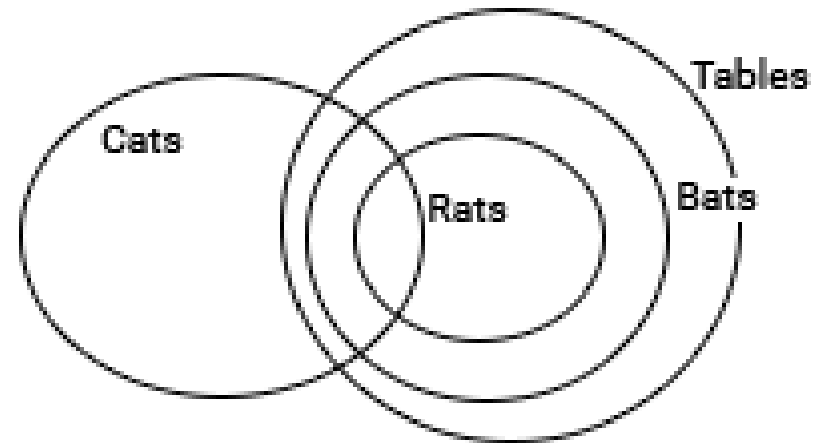
- Statements: Some ships are boats. All boats are submarines. Some submarines are yatches. Conclusion:I. Some yatches are boats.
- II. Some submarines are boats.
- III. Some submarines are ships.
- IV. Some yatches are ships
- 1. All follow
- 2. Only II and III follow
- 3. Only III follows
- 4. Only IV follows
- Ans:2
- From the diagram we can infer that some submarines are boats and some submarines are ships. So 2nd option.
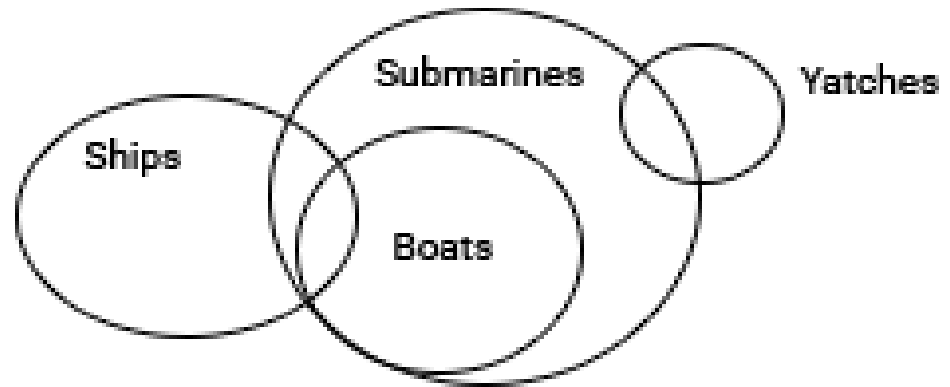
Statements: All Carrots are birds.

- Some telephones are Carrots.
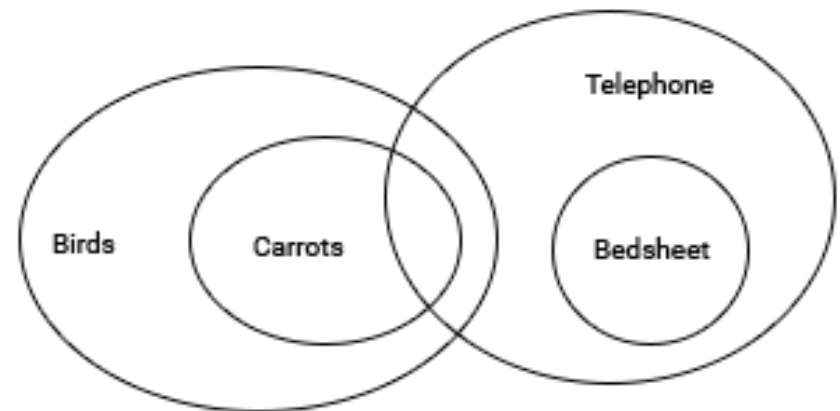- All bedsheets are telephone.

Conclusion:

I. All bedsheet are birds

II. Some bedsheet are birds

III. Some birds are telephone

IV. All telephone are birds

- 1. Only I follows
- 2. Only II follows
- 3. Only I and III follow
- 4. Only III follows
- Ans:4
- The diagram gives all the possibilities. But only conclusion III is true.
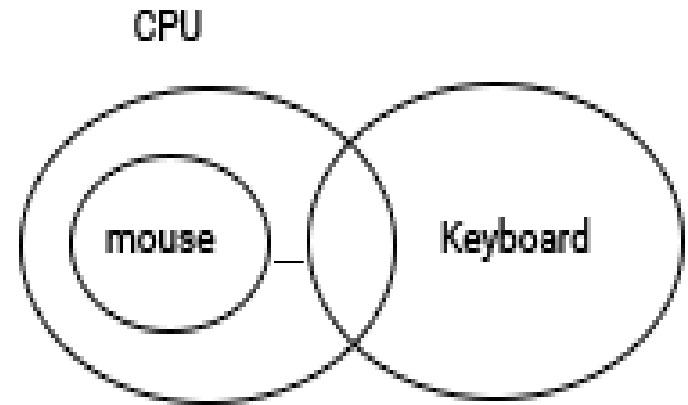
- Statements: Most CPUs are keyboards. No keyboard is a Mouse. All Mouses are CPU.
  Conclusion:

I. Some keyboards are CPU

II. All CPU's are Mouse

III. No Mouse is a keyboard

IV. Some Mouse are keyboard

- 1. Only I follows
- 2. Only II and III follow
- 3. Only I and III follow
- 4. Only II follows
- Ans:3
- Clearly from the diagram, I and III are true.
-

CPU

mouse   Keyboard

- Statements: Samosas are Jalebi. All Jalebis are Tikki. All Tikkis are Barfi
  Conclusion:

I. All Jalebis are Barfi

II. All Tikkis are Samosas

III. All Samosas are Barfi
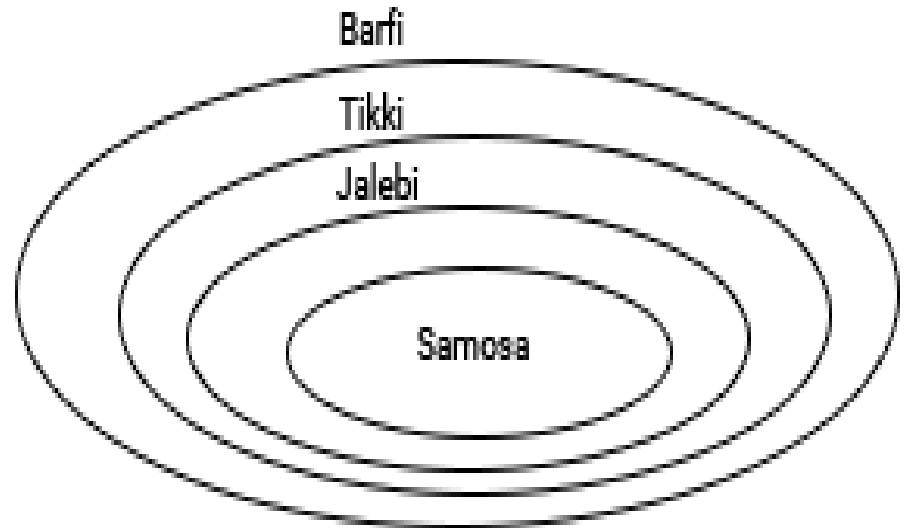
IV. All Barfi are Jalebi

- 1. Only I and II follow
- 2. Only I and III follow
- 3. Only II and III follow
- 4. All follow
- Ans:2
- Clearly from the diagram, I and III are true.

Statements: All locks are keys.

* All keys are bats.

Conclusions:

* I. Some bats are locks.

* II. Some locks are keys.

(1) if only conclusion I follows.

(2) if only conclusion II follows.

(3) if both conclusions I & II follow.

(4) if no conclusion follows.

Ans: 3

- Statements: Some cups are pots.
- All pots are tubes.
- Conclusions:
- I. Some pots are cups.
- II. Some tubes are cups.

(1) if only conclusion I follows.

(2)   if only conclusion II follows.

(3) if both conclusions I & II follow.

(4) if no conclusion follows.
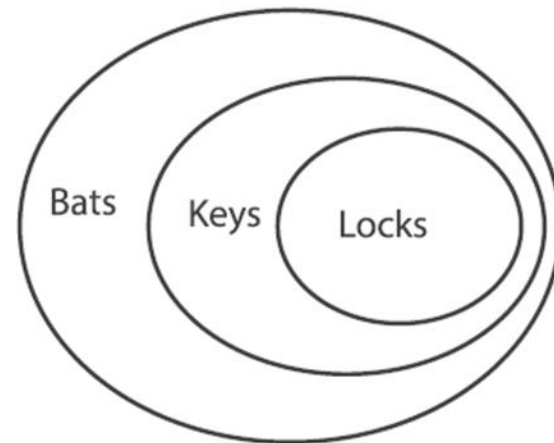
Ans: 3

- Statements: All bags are books.
- Some purses are bags.
- Conclusions:
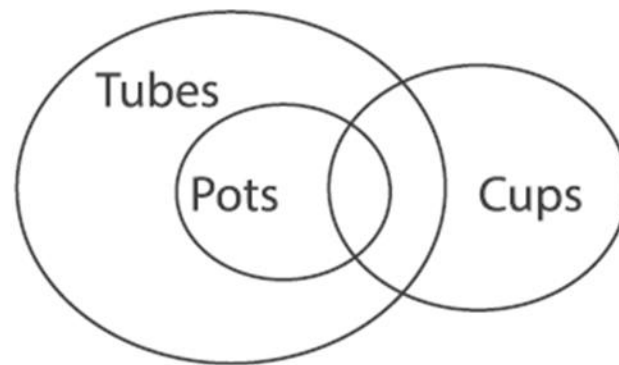- I. Some books are purses.
- II. Some books are bags
(1) if only conclusion I follows.
(2)   if only conclusion II follows.
(3) if both conclusions I & II follow.
(4) if no conclusion follows.
Ans: 3

- Statements: Some cars are jeeps.

- All pens are cars.

- Conclusions:

- I. No pen is jeep

- II. Some jeeps are cars.

(1) if only conclusion I follows.

(2)   if only conclusion II follows.

(3) if both conclusions I & II follow.
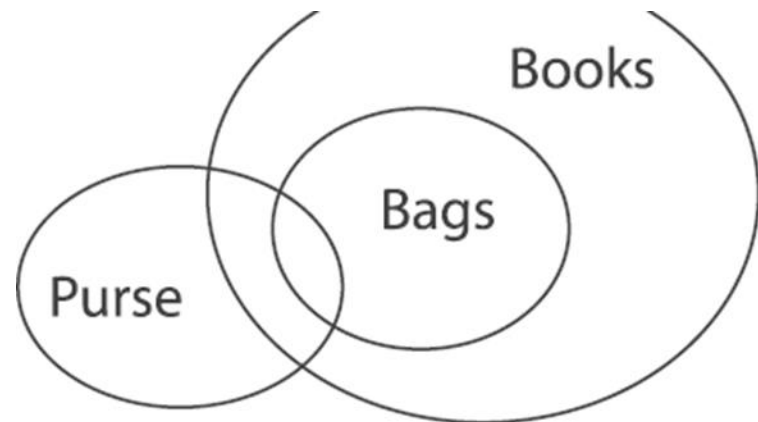
(4) if no conclusion follows.

Ans: 2

- Statements: Some cats are dogs.
- No dog is cow.
- Conclusions:
- I. No cow is cat.
- II. No dog is cat.

(1) if only conclusion I follows.

(2)   if only conclusion II follows.

(3) if both conclusions I & II follow.

(4) if no conclusion follows.

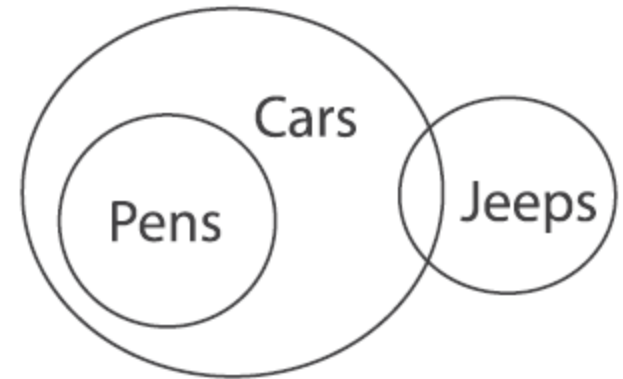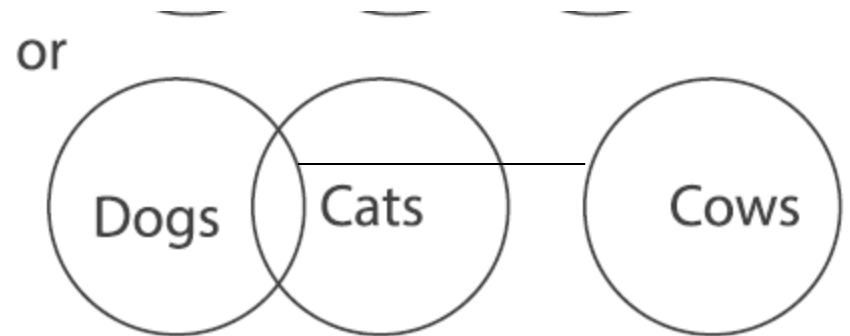## Ans: 4

or

- **Statement:**
  i) Some cats are white.
  ii) All white are dog.
  iii) No dog is snow.

  Conclusion:
  i) No cats are dogs.
  ii) Some cats are dogs.
  iii) No White is Snow.

(1) if only conclusion I and II follows.

(2)   if only conclusion II and III follows.

(3) if both conclusions I & II follow.

(4) if no conclusion follows.

- Ans: 2

- Statement one and two both are positive, so conclusion must be positive. Now, from given conclusion we can see that conclusion one is not at all correct because it is negative.
  Now, in conclusion two we can say that it might be correct because conclusion is positive but we have to solve it for knowing correct conclusion.

- **Statements:** Some actors are singers. All the singers are dancers.
- **Conclusions:**
1. Some actors are dancers.
2. No singer is actor.
- **A.**Only (1) conclusion follows
- **B.**Only (2) conclusion follows
- **C.**Either (1) or (2) follows
- **D.**Neither (1) nor (2) follows
- **E.**Both (1) and (2) follow
- Ans:A
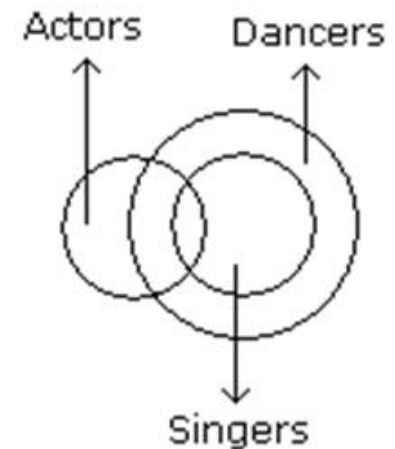
Only (1) follows.

-

Statements: Some mangoes are yellow. Some tixo are mangoes.

- **Conclusions:**

1. Some mangoes are green.
2. Tixo is a yellow.

- **A.** Only (1) conclusion follows
- **B.** Only (2) conclusion follows
- **C.** Either (1) or (2) follows
- **D.** Neither (1) nor (2) follows
- **E.** Both (1) and (2) follow
- Ans:D

None of the two follows.

- **Statements:** Some ants are parrots. All the parrots are apples.
- **Conclusions:**

1. All the apples are parrots.

2. Some ants are apples.

- **A.** Only (1) conclusion follows
- **B.** Only (2) conclusion follows
- **C.** Either (1) or (2) follows
- **D.** Neither (1) nor (2) follows
- **E.** Both (1) and (2) follow
- Ans:B

Only (2) follow.

- **Statements:** Some papers are pens. All the pencils are pens.
- **Conclusions:**
1. Some pens are pencils.
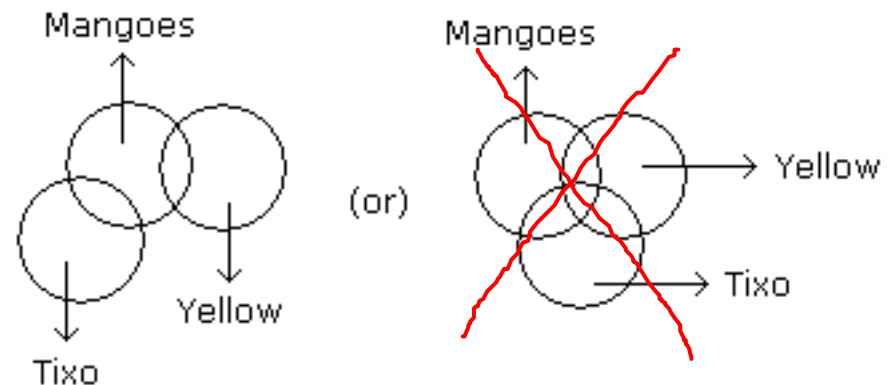2. Some pens are papers.
- **A.** Only (1) conclusion follows
- **B.** Only (2) conclusion follows
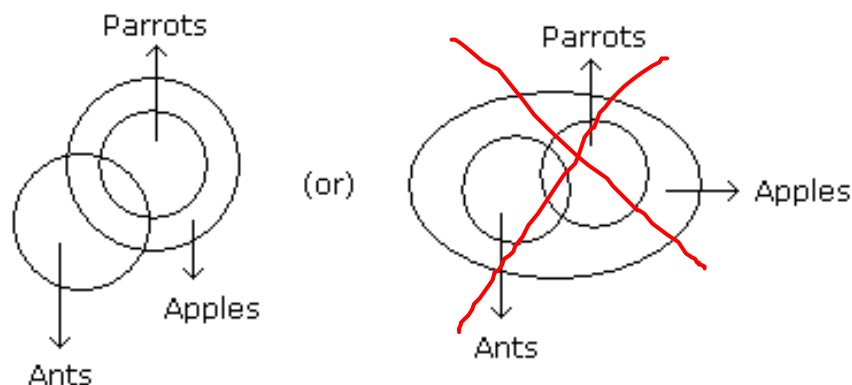- **C.** Either (1) or (2) follows
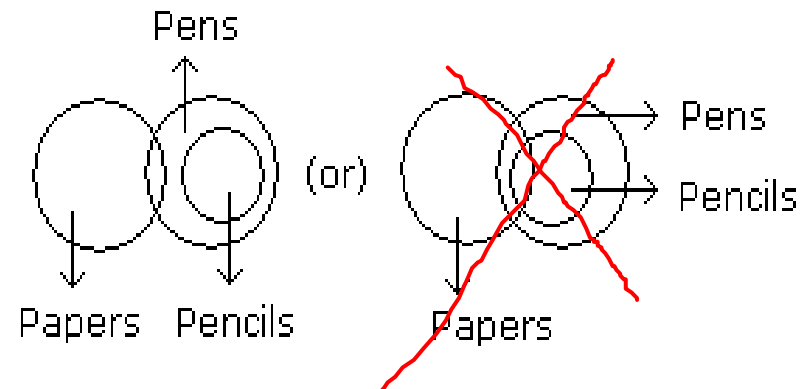- **D.** Neither (1) nor (2) follows
- **E.** Both (1) and (2) follow
- Ans:E

Both (1) and (2) follow.

- **Statements:** No door is dog. All the dogs are cats.
- **Conclusions:**

1. No door is cat.
2. No cat is door.
3. Some cats are dogs.
4. All the cats are dogs.
- **A.** Only (2) and (4)
- **B.** Only (1) and (3)
- **C.** Only (3) and (4)
- **D.** Only (3)
- **E.** All the four
- **Answer:** Option **D**
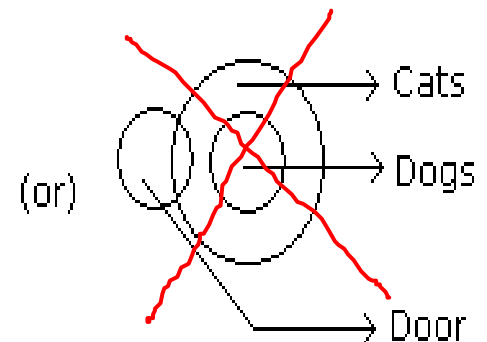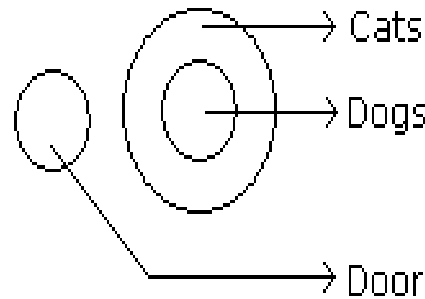
Only (3) follows.

- **Statements:** All green are blue. All blue are white.
- **Conclusions:**

1. Some blue are green.
2. Some white are green.
3. Some green are not white.
4. All white are blue.

- **A.** Only (1) and (2)
- **B.** Only (1) and (3)
- **C.** Only (1) and (4)
- **D.** Only (2) and (4)
- **Answer:** Option **A**
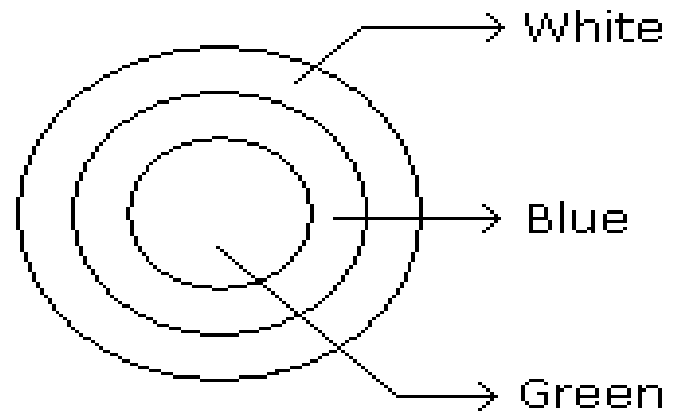
Only (1) and (2) follows.

- Statements:
- Some receipts are challans. Some challans are papers. Some papers are books. All books are files.
- Conclusions:

I.   Some papers are files.

II.   Some books are receipts.

III. No book is receipt.
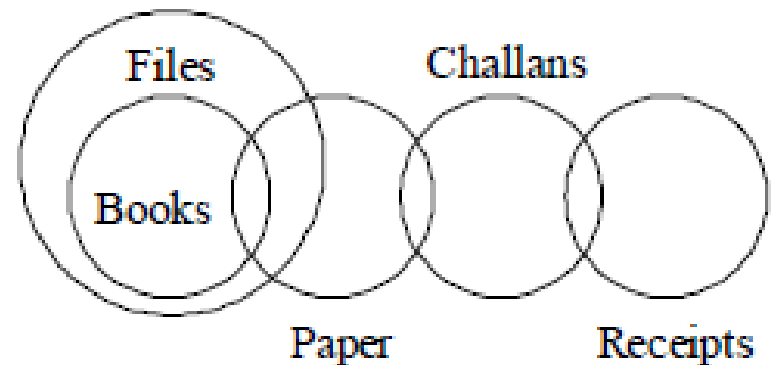
(a) Only I follows

(b) Only I and II follow

(c) Only I & either II or III follow

(d) Only I and III follow

Ans. (C)

- Concept-5 Either & OR Conditions
1) Two Conclusion
2) Individual statement wrong.
3) One positive other negative.
4) Subject and Predicate either should be same or replaceable to each other.

Note- There should be at least one particular statement.

Note- You can also do with common sense.

Statement: All radios are pencils

Some pencils are files

Conclusion: I. No radio is file

II. Some files are radio

A) Only I follows

B) Only II follows

C) Either I or II follows

D) Neither I nor II follows

E) Both I and II follows

Ans. (C)

- **Statements:** Some diggers are jokers
  All jokers are cute.
  Conclusion: I. Some diggers are cute.
  II. No diggers are cute.
  III. Some diggers are not cute
  IV. All diggers are cute.
  A) I and III follows
  B) Either II or IV follows
  C) II and either III or IV follows
  D) Either III or IV and I follows
  E) Either I or II and either III and IV follows
- Ans. (D)

- **Statements:** Some bags are pockets. No pocket is a pouch.
- **Conclusions:**

I.   No bag is a pouch.

II. Some bags are not pouches.

III. Some pockets are bags.

IV. No pocket is a bag.
    A) either I or IV follows
    B) II & III follow
    C) I & III follow
    D) All follow

- Ans. (B)

- **Statements:** All cones are cylinders. Some cones are squares. No square is a rectangle.
  Conclusions:
  I. At least some cones being rectangle is a possibility.
  II. Some cylinders are cones.
  A) only I follows
  B) only II follows
  C) either I or II follows
  D) neither I nor II follow
  E) both I and II follow
- Ans. (E)

- Concept 6 – All A is B.
- There are 2 possible case.

1) All B are A is Being possible.

2) Some B are not A is being possible.
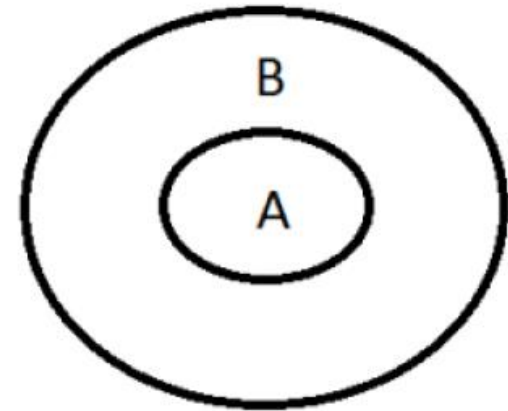
- Concept 7- Some A are B.
- There are 4 possible case.

1) All A are B is possibility.

2) All B are A is possibility.

3) Some A are not B is possibility.

4) Some B are not A is possibility.
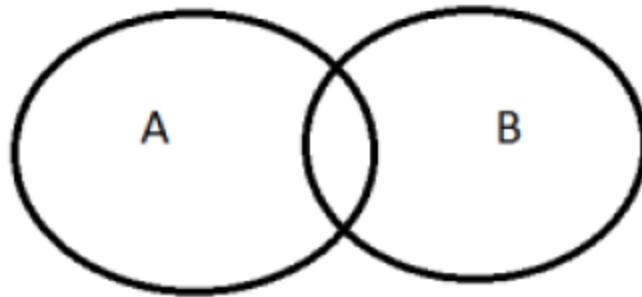
- Concept-8 No A is B.
- There are no possible case.
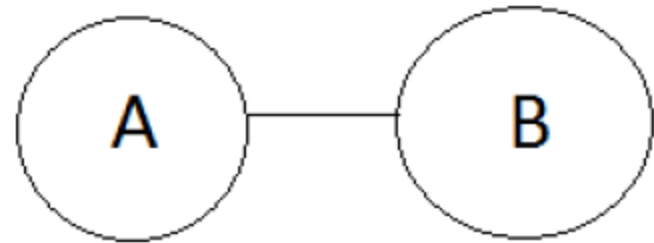
- Concept- 9 Some A are not B.
- There are 6 possible case

1) No A is B is possibility.

2) No B is A is possibility.

3) Some A is B is possibility.

4) Some B is A is possibility.

5) Some B are not A is possibility.

6) All B are A is possibility.

7) All A are B is possibility. ⊗
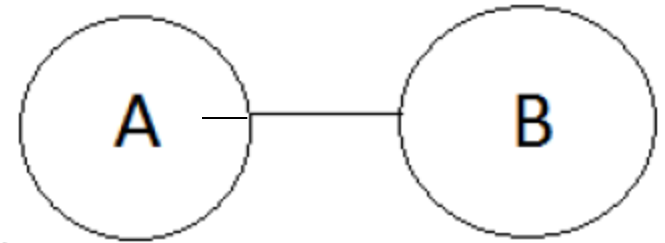
Statements- All B are A. All A are C. Some C are D. No D is G. Some G are X.

Conclusions-

I.   Some A are D is possibility.

II. Some B are D is possibility.

III. All C are G is possibility.

IV. All X are A is possibility.

V. No G is D is possibility.

(a) I & II follows   (b) I, II & IV follows

(c) I, II & V follows   (d) I, II, IV & V follows

Ans. (b)

- Statements:
- Some cups are not bolts.
- All dusters are balls.
- All cups are balls.
- Conclusions:
- I. All bolts are cups.
- II. Some dusters are cups is a possibility.

A) Only I follows
B) Only II follows
C) Either I or II follows
D) Neither I nor II follows
E) Both I and II follows

Ans. (B)

- Statements:
- All marks are grades.
- No grade is a score.
- All scores are letters.
- Some letters are characters.
- Conclusions:
- I. Some scores are characters.
- II. All marks being letters is a possibility.
- III. All characters are grades is a possibility.
A) Only II follows
B) Only II and III follows
C) All follows
D) Only I nor III follows
E) None of these
Ans. (B)

- Statements:
- No cat is rat.
- All rats are dog.
- Some dog are lion.
- Conclusions:
- I. No cat is lion.
- II. No dog is a rat.
- III. Some dog is rat is a possibility.
- IV. At least some lions are cat.

A) Either 1 or 2 and 3 follows
B) Either 1 or 4 follow
C) Either 1 or 4 and 3 follow
D) All follows
E) None of these

- Ans. (B)

- Question below contains two conclusions followed by statements. Find from which of the statements given, both the conclusions follow.

- Conclusions:

- I. Some Red is Blue

- II. Some Blue is Black

- Statements:

A) All Red is yellow. All Yellow is Black. Some Black is Blue.
B) All Red is Yellow. Some Yellow is Black. All Black is Blue.
C) No Red is Yellow. All Yellow is Black. Some Black is Blue.
D) Some Red is Yellow. All Yellow is Black. No Black is Blue.
E) None of these

- Ans. (E)

- Question below contains two conclusions followed by statements. Find from which of the statements given, both the conclusions follow.
- Conclusions:
- I. Some Oranges are not Kiwis
- II. Some Apples are not Bananas
- Statements:

A) Some Kiwis are Apples. No Apple is Orange. All Orange are Bananas.
B) All Kiwis are Apples. Some Apples are Oranges. All Oranges are Bananas.
C) No Kiwi is Apple. All Apples are Oranges. No Orange is Banana.
D) No Kiwi is Apple. No Apple is Orange. All Oranges are Bananas.
E) None of these

- Ans. (C)

- Statements:
- Some Rubber are Pen.
- All Pen are Pencil.
- All Rubber are scale.
- Conclusions:
- I. Some Rubber being Pencil is a possibility.
- II. Some Scale being Pen is a possibility.

(a) If only conclusion I follows

(b) If only conclusion II follows

(c) If either conclusion I or conclusion II follows

(d) If neither conclusion I nor conclusion II follows

(e) If both conclusion I and conclusion II follow

Ans. (d)

- Statements:
- All violet are green.
- All yellow are orange.
- Some violet are orange.
- No yellow is violet.
- Conclusions:
- I. All orange can be violet.
- II. All green being yellow is a possibility.

(a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or conclusion II follows
(d) If neither conclusion I nor conclusion II follows
(e) If both conclusion I and conclusion II follow

Ans. (d)

- Statements:
- All Bag is Pouch.
- Some Bag is Curtain.
- No Curtain is Cloth.
- Some Pouch is Floor.
- Conclusions:
- I. Some Pouch are not Cloth.
- II. All Floor can be Curtain.
- III. All Pouch are Bag.
- IV. Some Cloth can be Pouch.
- (a)   None follows
- (b)   Only I, II and IV follow
- (c)   Only III follows
- (d)   Only II & III follow
- (e)   None of these

Ans. (b)