

BANK EXAMS Today

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What is a syllogism?

- » A syllogism is a deductive argument comprising three categorical propositions: a major premise, a minor premise and the conclusion. Categorical propositions have four standard forms:
 - » A = All S are P
 - » E = No S are P
 - » I = Some S are P
 - » O = Some S are not P

BASIC CONCEPT

STATEMENT :- Key words

SOME

SOME NOT

ALL

Positive Statements

NO

Negative Statements

QUANTIFIER :-

(i) **UNIVERSEL :- All, No,.....etc.**

(ii) **PARTICULAR :- Some, Few, At least,etc.**

BASIC CONCEPT

CONCLUSION :- Key words.

At least some :- Definite

Can be :- Possibility

Can never be :- Definite

TYPE OF STATEMENTS

Four Type :-

(i) All A's are B's

(ii) No A's are B's

(iii) Some A's are B's

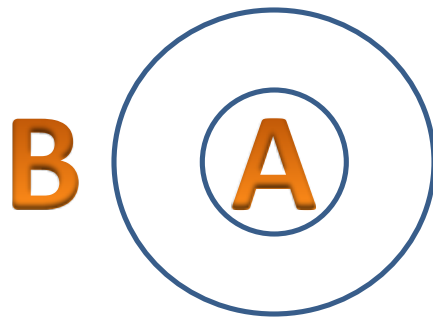
(iv) Some A's are not B's

All A's are B's

All information about A

Basic Diagram :-

(i) A :- All possibility
Zero.

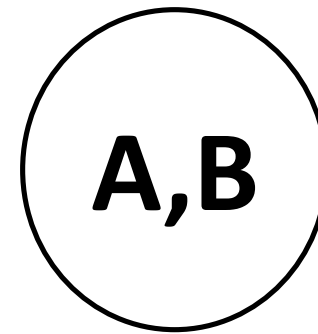


Some information about B

Possible Diagram :-

(i) Some B are not A is
a possibility.

(ii) All B can be A.



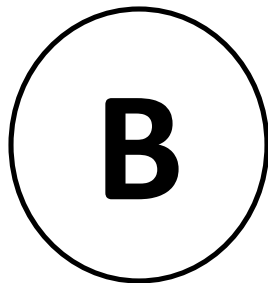
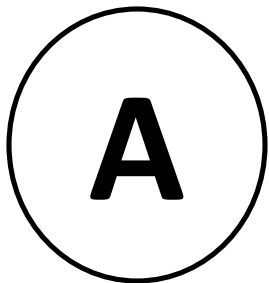
No A's are B's

All information about A

Basic Diagram

(i) No A's are B's

(ii) No B's are A's



All information about B

**(i) Some A are B being
a possibility. [X]**

**(ii) Some B are A being
a possibility. [X]**

Some A's are B's

Meaning of Some :- Min = 1

Max = ($\rightarrow \infty$)

Basic Diagram :-

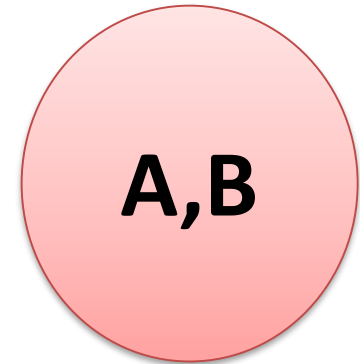
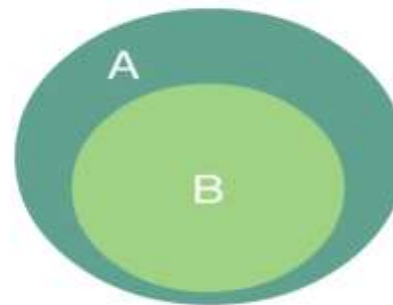
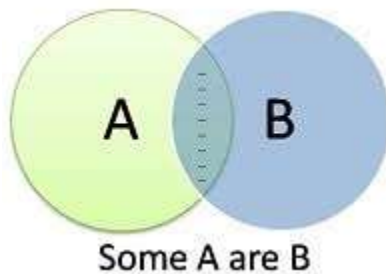
(i) Some A are B. [T]

(ii) Some B are A. [T]

Possible Diagram :-

(i) All A are B being possibility. [T]

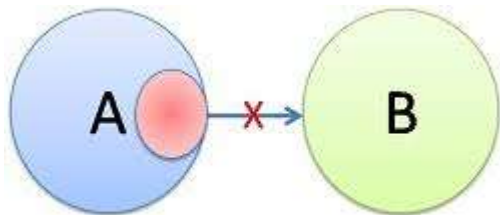
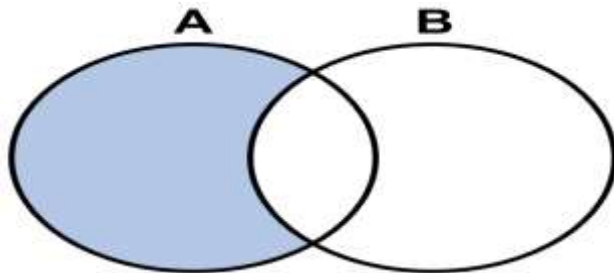
(ii) No A are B [F]



Some A's are not B's

Basic Diagram

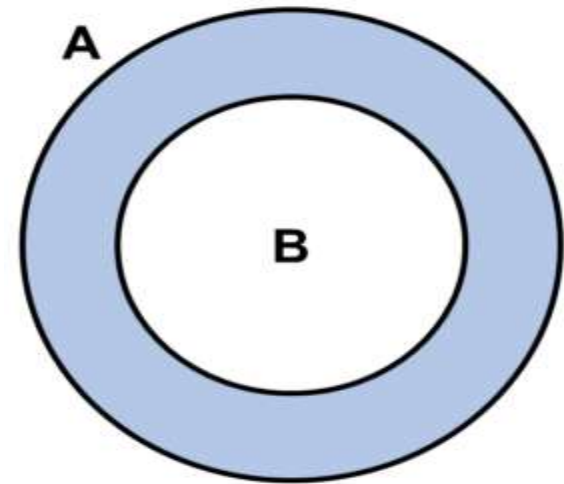
(i) Some A are not B.



Some A are not B

Possible Diagram

(i) Some A are not B
being a possibility.



QUESTION

STATEMENTS :-

All road are Truck.

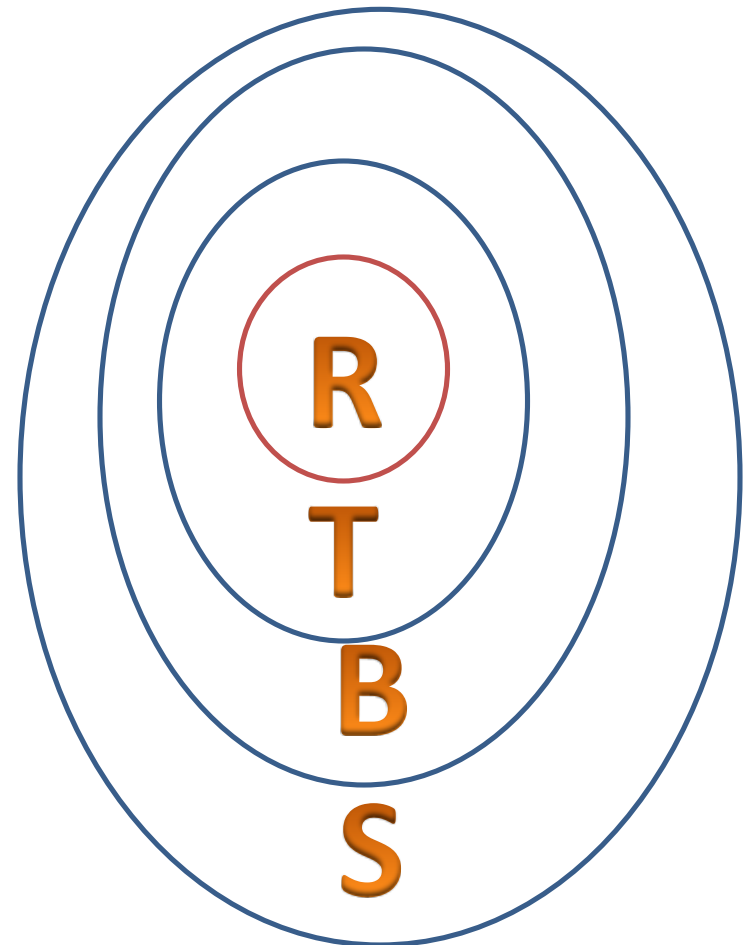
All Truck are Bus.

All Bus are Ship.

CONCLUSION :-

- (i) Some Truck are Ship.
- (ii) All bus are Road.
- (iii) Some Road are Ship.
- (iv) No Ship are Bus.

Venn Diagram :-



QUESTION

STATEMENTS :-

All students are Engineer.

All Engineer are jobless.

All jobless are advisor.

CONCLUSION :-

(i) Some jobless are students.

(ii) All advisor are students.

(iii) No advisor are students.

(iv) Some engineer are not students.

EXPLANATION

STATEMENTS :-

All students are Engineer.

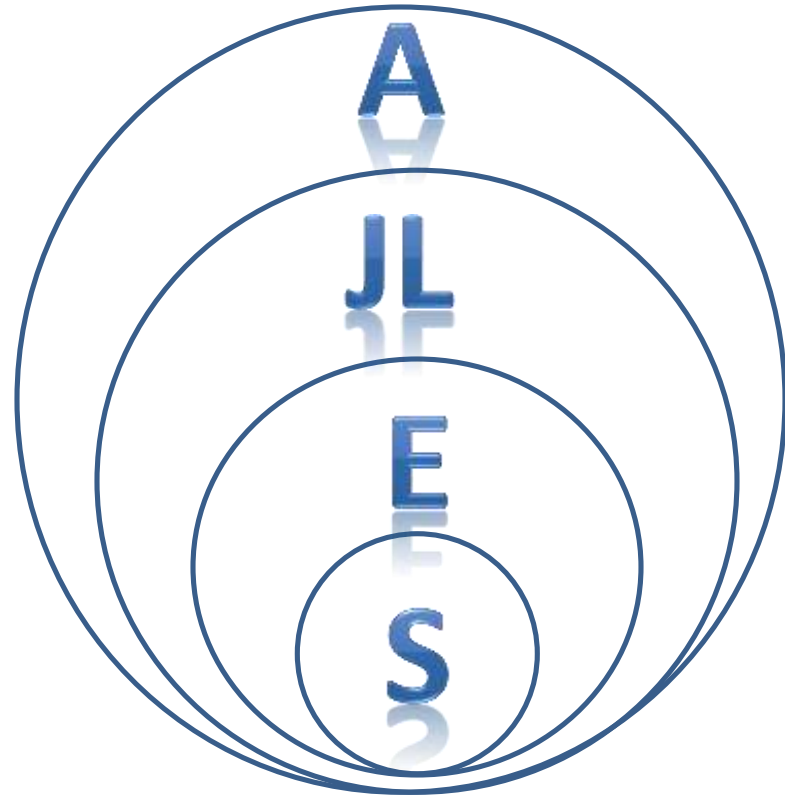
All Engineer are jobless.

All jobless are advisor.

CONCLUSION :-

- (i) Some jobless are students. [T]
- (ii) All advisor are students. [F]
- (iii) No advisor are students. [F]

Venn Diagram :-



QUESTION

STATEMENTS :-

- (i) Some Pakistanis are honest.
- (ii) All honest are terrorist.

CONCLUSION :-

- (i) Some Pakistanis are not terrorist.
- (ii) Some terrorist are not Pakistanis.

EXPLANATION

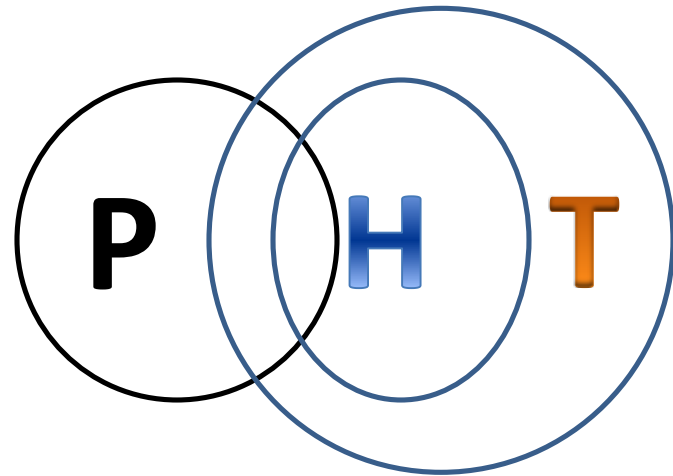
STATEMENTS :-

- (i) Some Pakistanis are honest.
- (ii) All honest are terrorist.

CONCLUSION :-

- (i) Some Pakistanis are **not** terrorist. [F]
- (ii) Some terrorist are **not** Pakistanis. [F]

Venn Diagram :-



QUESTION

STATEMENTS :-

No boys is hardworking.

No intelligent is boys.

CONCLUSION :-

(i) Some hardworking are intelligent.

(ii) Some intelligent are hard working.

EXPLANATION

STATEMENTS :-

No boys is hardworking.

No intelligent is boys.

CONCLUSION :-

**(i) Some hardworking
are intelligent. [F]**

**(ii) Some intelligent are
hard working. [F]**

Statement are Negative.

Conclusion are Positive.

QUESTION

STATEMENTS :-

All Radio are Tape.

All Tape are Road.

All Road are Bus.

All Car are Bus.

CONCLUSION :-

(i) All Road are Car.

(ii) All Tape are Bus.

(iii) No Bus are Road.

(iv) Some Bus are Radio is a possibility.

EXPLANATION

STATEMENTS :-

All Radio are Tape.

All Tape are Road.

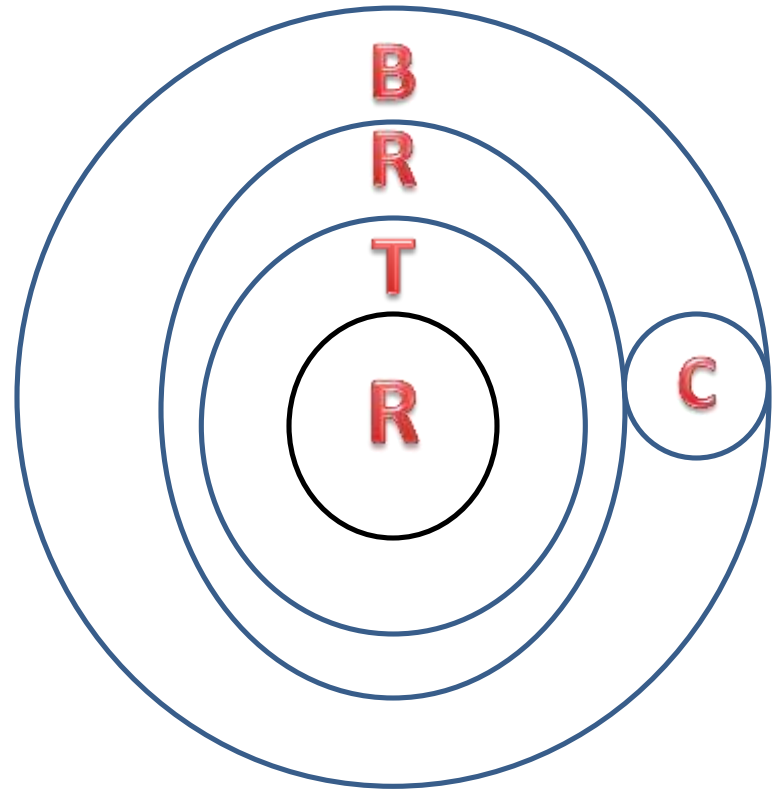
All Road are Bus.

All Car are Bus.

CONCLUSION :-

- (i) All Road are Car. [F]
- (ii) All Tape are Bus. [T]
- (iii) No Bus are Road. [F]
- (iv) Some Bus are Radio is a possibility. [F]

Venn Diagram :-



QUESTION

STATEMENTS :-

All Forces are Energy.

All Energy are Power.

No Power is Heat.

CONCLUSION :-

(i) No Heat is Force.

(ii) No Energy is Heat.

EXPLANATION

STATEMENTS :-

All Forces are Energy.

All Energy are Power.

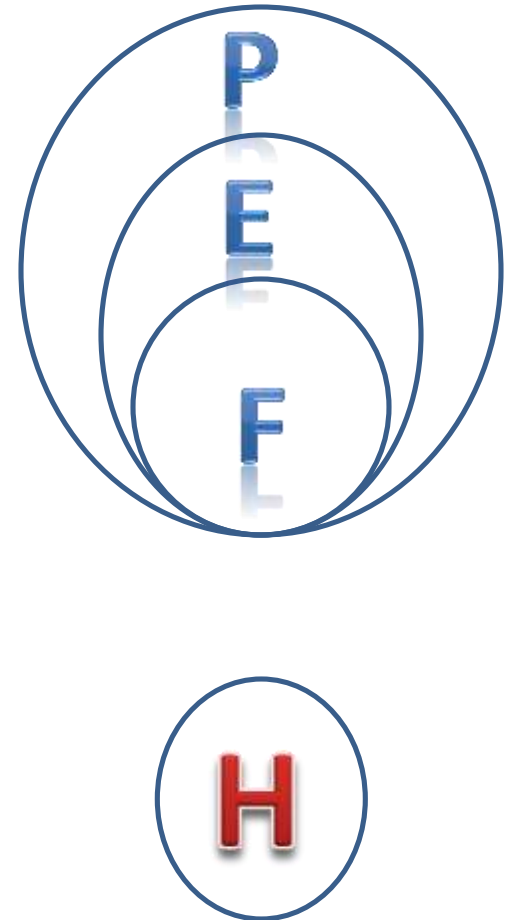
No Power is Heat.

CONCLUSION :-

(i) No Heat is Force. [T]

(ii) No Energy is Heat. [T]

Venn Diagram :-



QUESTION

STATEMENTS :-

All Forces are Energy.

All Energy are Power.

No Power is Heat.

CONCLUSION :-

(i) No Heat is Force.

(ii) No Energy is Heat.

EXPLANATION

STATEMENTS :-

All Forces are Energy.

All Energy are Power.

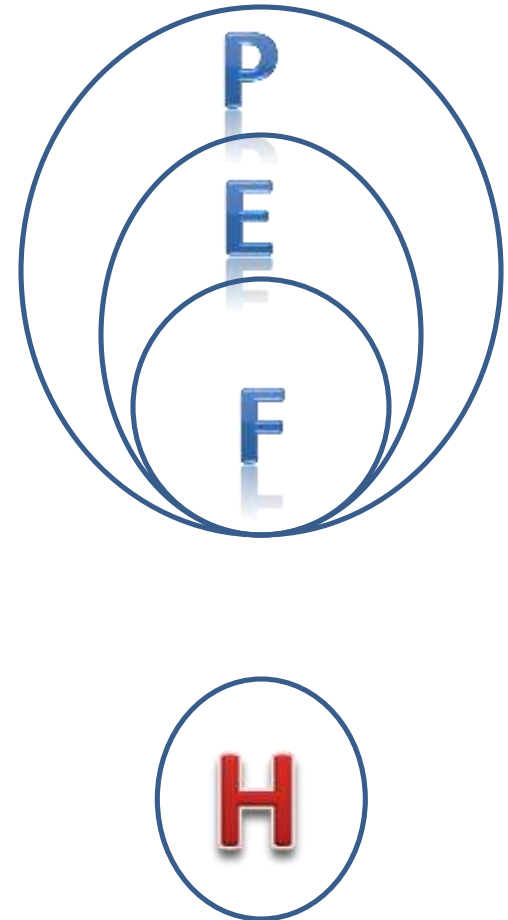
No Power is Heat.

CONCLUSION :-

(i) No Heat is Force. [T]

(ii) No Energy is Heat. [T]

Venn Diagram :-



GATE-2014

Read the statement:

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**

EXPLANATION

Read the statement:

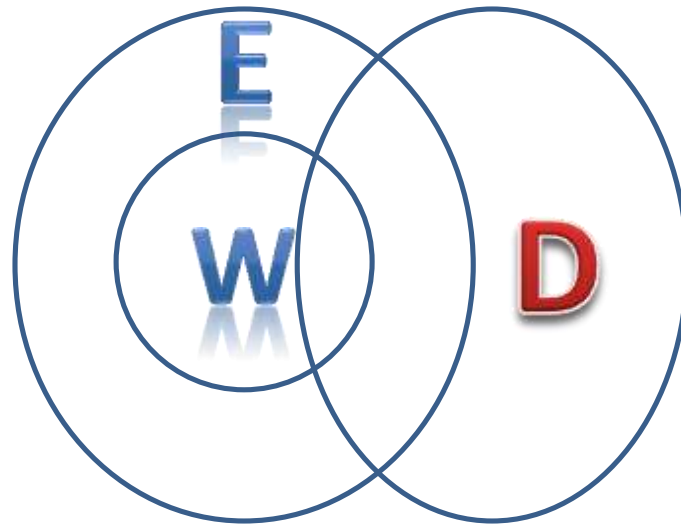
All women are entrepreneurs.

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 [T]**

Venn Diagram :-



GATE-2014

Q:- Given below are two statements followed by two conclusions. Assuming these statements to be true, decide which one logically follows.

Statement:

- i. All film stars are playback singers.**
- ii. All film directors are film stars.**

Conclusions

- i. All film directors are layback singers.**
 - ii. Some film stars are film directors**
- (a) Only conclusion I follow**
 - (b) Only conclusion II follows**
 - (c) Neither conclusion I nor li follows**
 - (d) Both conclusions I and II follow**

EXPLANATION

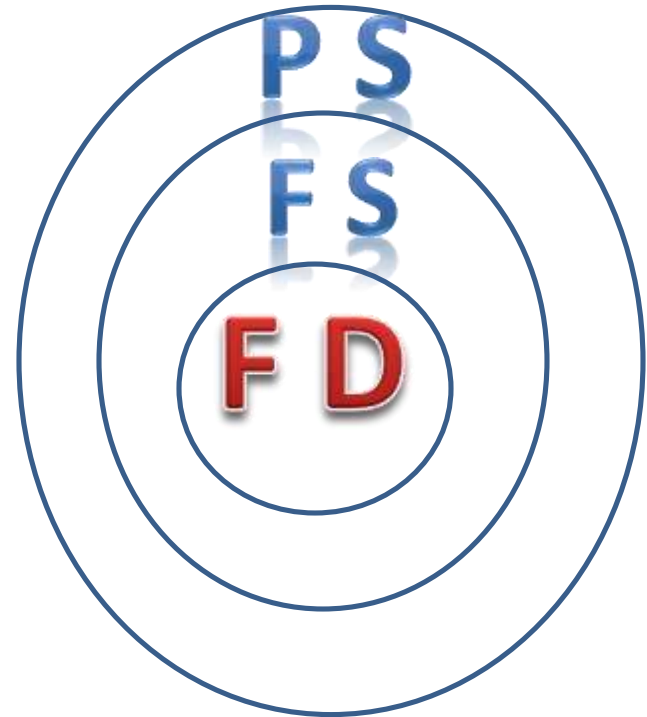
Statement:

- i. All film stars are playback singers.**
- ii. 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 follow**
 - (b) Only conclusion II follows**
 - (c) Neither conclusion I nor II follows**
 - (d) Both conclusions I and II follow [T]**

Venn Diagram :-



GATE-2015

Q:- Given below are two statements followed by two conclusions. Assuming these statements to be true, decide which one logically follows.

Statements:

- I. No manager is a leader**
- II. All leaders are executive.**

Conclusions:

- I. No manager is a executive.**
 - II. All executive is a manager.**
- (a) Only conclusion I follow**
 - (b) Only conclusion II follows.**
 - (c) Neither conclusion I nor II follows**
 - (d) Both conclusion I and II follow.**

EXPLANATION

Statements:

- I. No manager is a leader**
- II. All leaders are executive.**

Conclusions:

- I. No manager is a executive.**
- II. All executive is a manager.**

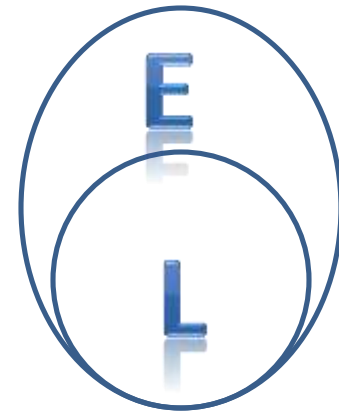
(a) Only conclusion I follow

(b) Only conclusion II follows.

(c) Neither conclusion I nor II follows [T]

(d) Both conclusion I and II follow.

Venn Diagram :-



GATE-2015

Statements:

- I. Only Circle are Rectangle.**
- II. No Circle is Square.**
- III. All Square are Chart.**

Conclusions:

- I. All Chart can be Square.**
- II. Some Circle are not Rectangle is a possibility.**
- III. Some Square can be Chart.**

EXPLANATION

Statements:

I. Only Circle are Rectangle.

(All Rectangle are Circle)

II. No Circle is Square.

III. All Square are Chart.

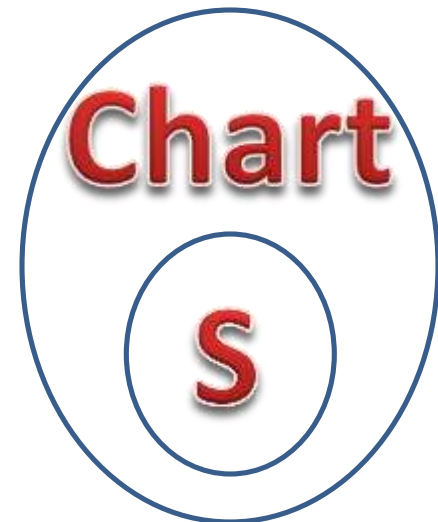
Conclusions:

I. All Chart can be Square. [T]

II. Some Square can be Chart.

[F]

Venn Diagram :-



SBI-PO

Statements:

I. Some Watch are Tie.

II. Some Tie are Shirt.

III. No Watch is Belt.

Conclusions:

I. Some Watch are Shirt is a possibility.

II. Some Watch are not Shirt is a possibility.

EXPLANATION

Statements:

I. Some Watch are Tie.

II. Some Tie are Shirt.

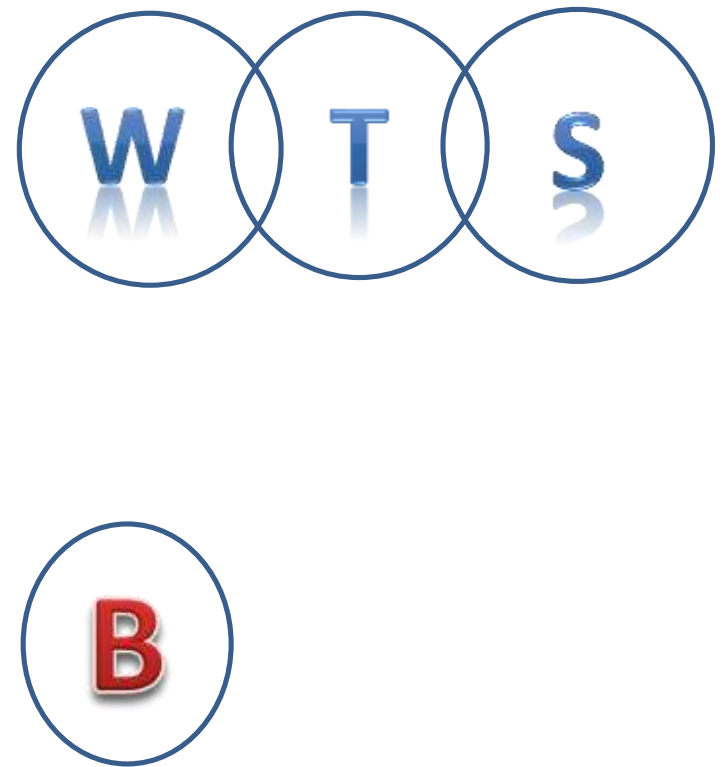
III. No Watch is Belt.

Conclusions:

I. Some Watch are Shirt is a possibility. [T]

II. Some Watch are not Shirt is a possibility. [T]

Venn Diagram :-



SBI-PO

Statements:

I. All A are B.

II. All B are C.

Conclusions:

I. Some B are C is a possibility.

II. Some A are not B is a possibility.

EXPLANATION

Statements:

I. All A are B.

II. All B are C.

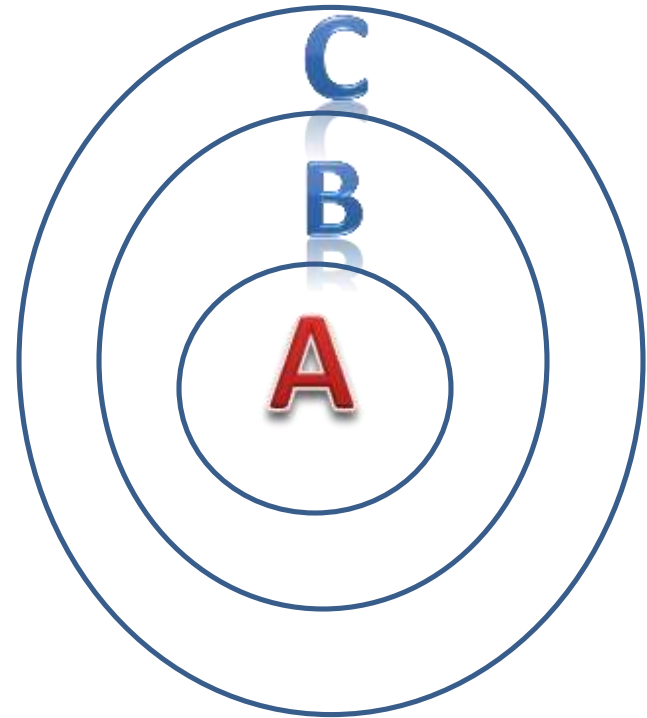
Conclusions:

I. Some B are C is a possibility. [F]

II. Some A are not B is a possibility.

[F]

Venn Diagram :-



INFOSYS

Statements:

- (i) Some CNG are LPG.**
- (ii) All LPG are Petrol.**
- (iii) Some Petrol are Diesel.**
- (iv) No Diesel is Fuel.**

Conclusions:

- (i) Some Petrol are CNG is a possibility.**
- II. Some Fuel are not Petrol is a possibility.**

EXPLANATION

Statements:

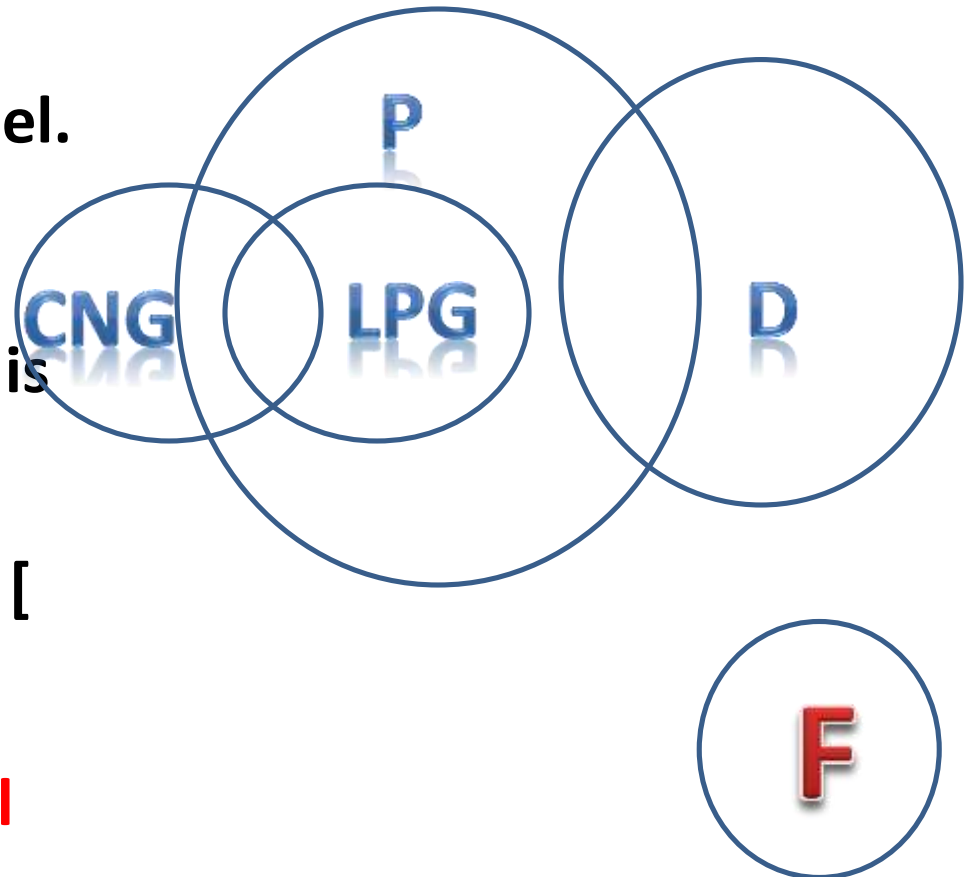
- (i) Some CNG are LPG.
- (ii) All LPG are Petrol.
- (iii) Some Petrol are Diesel.
- (iv) No Diesel is Fuel.

Conclusions:

- (i) Some Petrol are CNG is a possibility. [F]
- (ii) Some Fuel are not Petrol is a possibility. [T]

Note :- Fuel to Petrol no information given then all possibility correct.

Venn Diagram :-



INFOSYS

Statements:

- (i) No Water is Pani.**
- (ii) Some Pani are Soil.**
- (iii) All Soil are Air.**
- (iv) Some Air are Sand.**

Conclusions:

- (i) Some Soil are not Water is a possibility.**
- (ii) Some Soil are not Air is a possibility.**

EXPLANATION

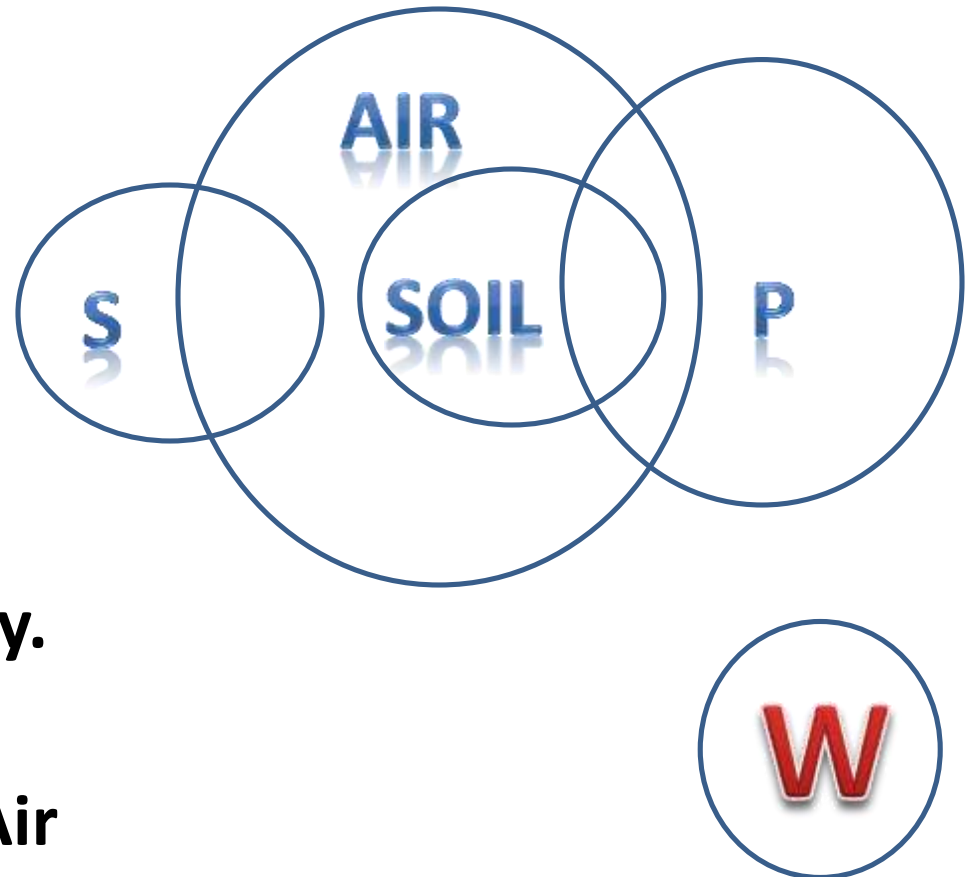
Statements:

- (i) No Water is Pani.
- (ii) Some Pani are Soil.
- (iii) All Soil are Air.
- (iv) Some Air are Sand.

Conclusions:

- (i) Some Soil are not Water is a possibility.
[T]
- (ii) Some Soil are not Air is a possibility. [F]

Venn Diagram :-



INFOSYS

Statements:

- (i) No D is E.
- (ii) Some E are F.
- (iii) Some F are U.

Conclusions:

- (i) Some F can be D.
- (ii) All F can be D is a possibility.

EXPLANATION

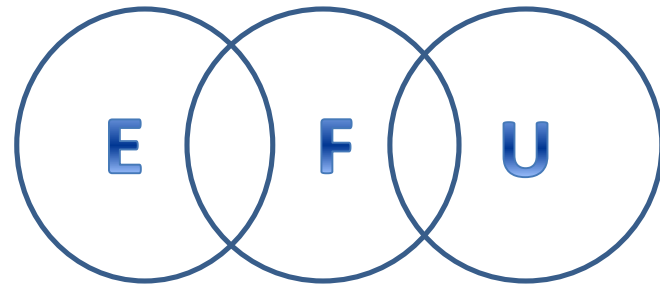
Statements:

- (i) No D is E.**
- (ii) Some E are F.**
- (iii) Some F are U.**

Conclusions:

- (i) Some F can be D. [T]**
- (ii) All F can be D. [F]**

Venn Diagram :-





THANK YOU!