

13. SYLLOGISM

Reasoning Guru

Ram Yadav

RULES

1.

Statement	Statement	Conclusion
+ve	+ve =	+ve
+ve	-ve =	-ve
-ve	-ve =	No Conclusion

2.

All	=	100	50
Some	=	50	50
Some Not	=	50	100
No	=	100	100

3.

All A are B.

B = 100

All B are C.

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Examples :-

Statement :-

All A are B.

All B are C.

Conclusion :-

(1) Some A are B.

(2) Some B are A.

(3) Some B are C.

(4) Some C are B.

(5) All B are A.

(6) All C are B.

(7) All B are C.

(8) All A are C.

(9) Some A are C.

(10) Some C are A.

(11) All C are A.

(12) Some A are not B.

(13) Some B are not A.

(14) Some B are not C.

(15) Some C are not B.

(16) Some A are not C.

(17) Some C are not A.

(18) No A is B.

(19) No B is A.

(20) No B is C.

(21) No C is B.

(22) No A is C.

(23) No C is A.

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Q.1

Statement :-

All Male are Boy.

All Boy are Naughty.

Some Boy are Serious.

Some Serious are Naughty.

Conclusion

(A) Some Male are Boy.

(B) All Naughty are Boy.

(C) Some Naughty are Serious.

(D) All Male are Boy.

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Q.2

Statement :-

Some Pencils are Pens.

All Pencils are Game.

All Pens aer Oats.

Some Oats are Trains.

Conclusion

(A) Some Trains are Pencils.

(B) Some Pens are Oats.

(C) Some Trains are Game.

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Q.3

Statement

No Man is Women.

No Women is Chair.

Some Chair are Dog.

Some Dogs are woman.

Conclusion

(A)Some Woman are Chair.

(B) Some Chair are Man.

(C) Some Dog are Man.

(D) No Chair is Man.

(E) Some Dog are not Man.

(F) No Woman is Dog.

(G) Some Man are not Dog.

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" Either or Case "

Conditions for "Either or Case"

- (1) Elements must be same in conclusion.
- (2) One conclusion must be positive and another should be negative.
- (3) Both conclusions must be false.
- (4) Complimentary pairs are only three.

- (A) b/w 1st and 3rd - All and Some not.
- (B) b/w 2nd and 3rd - Some and Some not.
- (C) b/w 2nd and 4th - Some and No.

Example :- **Conclusion**

- (1) Some Pens are Pencils.
- (2) No pen is Pencils.

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Point to be noted :-If there is possibility in conclusion Never check for either or case.

Q.4

Statement

Some Tables are Chairs.

Some Chairs are Bike.

All Bike are Bat.

Conclusion

(A) Some Bat are Table.

(B) No Table is Bat.

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Q.5

Statement

All Pen are Pencils.

All Pencils are Eraser.

Some Eraser are Book.

All Books are Copy.

Conclusion

(A) Some Erasers are Pen.

(B) No Eraser is Pen.

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Q.6

Statement

Some Table are Chair.

All Chair are Book.

Some PC are Chair, Table, Book.

Some Copy are PC.

Conclusion

(A) Some Books are not Copy.

(B) All Copy are Books.

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Q.7

Statement

All Tea are coffee.

Some Coffee are not Cold Drinks.

Only Tea are Hot Dog.

Conclusion

(A) No Hot Dog is Cold Drink.

(B) Some Cold Drink are Hot Dog.

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" Neither nor Case "

- (1) Both conclusions must be false.
- (2) Elements of conclusion must be different or same, but not in condition either or case.

Example :-

Conclusion

- (1) All Pens are Eraser.
- (2) No pens is Pencils.

Point to be noted :- possibility case also check.

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Q.8

Statement

All Work are Home.

No Home is Time.

All Time are Busy.

Some Busy are Phone.

Conclusion

(A) All Time are Phone.

(B) Some Home are Busy.

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Q.9

Statement

Some Shirts are Top.

Some Tops are Pant.

Some Pants are Jeans.

Conclusion

(A) At least some Shirts are Pant.

(B) At least some Tops are Jeans.

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" Syllogism 100-50 rule in case of possibility. "

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" Syllogism 100-50 rule in case of possibility. "

Types of Statement :-

- All A are B.
- Some A are B.
- Some A are not B.
- No A is B.

Types of Possibility :-

- All A being B is Possibility.
- Some A being B is Possibility.
- Some A not being B is Possibility.
- No A being B is Possibility.

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Rules :-

If Statement is :-

(1) All A are B then following possibility exists.

(A) A to B

No possibility exists.

(B) B to A

- All B being A is Possibility. (1st) (All Reverse).
- Some B not being A is Possibility. (3rd) (Some Not Reverse).

Rules :-

If Statement is :-

(2) Some A are B then following possibility exists.

(A) A to B

- All A being B is Possibility. (1st) (All).
- Some A not being B is Possibility. (3rd) (Some Not).

(B) B to A

- All B being A is Possibility. (1st) (All Reverse).
- Some B not being A is Possibility. (3rd) (Some Not Reverse).

Rules :-

If Statement is :-

(3) Some A are not B then following possibility exists.

(A) A to B

- Some A being B is Possibility. (2nd) (Some).
- No A being B is Possibility. (4th) (No).

(B) B to A

- All B being A is Possibility. (1st) (All Reverse).
- Some B being A is Possibility. (2nd) (Some Reverse).
- Some B not being A is Possibility. (3rd) (Some Not Reverse).
- No B being A is Possibility. (4th) (No Reverse).

Rules :-

If Statement is :-

(4) NO A is B then following possibility exists.

(A) A to B

- No possibility exists.

(B) B to A

- No possibility exists.

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GOLDEN TRICKS

- If there is no relation in statements then "All types of possibility exist."
- If conclusion is wrong then it's possibility will be right.
- If there is Some and No in statement follow normal rules.

Different concept of Syllogism :-

All	- Any, Every, Each, 100%
Some	- At least, Almost, Maximum, Minimum, Often, A few, A lot of, Many, $0% < A < 100%$
Some Not	- Hardly, Rarely, Seldom, Scarcely
No	- Never, None, Can Never.

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HOW TO REMEMBER

Statement	Conclusion (A to B)				Conclusion (B to A)			
(1) All	X	X	X	X	All (1 st)	Some Not (3 rd)		
(2) Some	All (1 st)		Some Not (3 rd)		All (1 st)	Some Not (3 rd)		
(3) Some Not	Some (2 nd)		No (4 th)		All (1 st)	Some (2 nd)	Some Not (3 rd)	No (4 th)
(4) No	X	X	X	X	X	X	X	X

Q.10

Statement

All Cars are Truck.

All Truck are Van.

Conclusion

(A) All Cars being Van is a possibility.

(B) Some Cars being Van is a possibility.

(C) Some Cars not being Van is a possibility.

(D) No Cars being Van is a possibility.

(E) All Van being Car is a possibility.

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Q.11

Statement

Some A are B.

All B are C.

Some D are B.

Conclusion

(A) Some C not being A is possibility.

(B) Some B being D is a possibility.

(C) Some C being D is a possibility.

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Q.12

Statement

Some A are B.

Some B are C.

No D is E.

All C are D.

All F are E.

Conclusion

(A) All B being E is possibility.

(B) Some D are C.

(C) Some A are E.

(D) Some B being E is a possibility.

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Q.13

Statement

Conclusion

All Minister are Dean's.

(A) No Principal is a Minister.

Some Dean's are Heads.

(B) All Heads being Minister is a possibility.

Some Heads are Principals.

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Q.14

Statement

Conclusion

No Boys is Girl.

(A) Some Girl are Married.

Some Girl are Educated.

(B) All Boys being Married is a possibility.

All Educated are Married.

(C) Some Boys are Married.

All Boys are Unmarried.

(D) Some Boys are not Married.

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Q.15

Statement

Some Pearl are Stone.

Some Stone are Diamond.

No Diamond is Gold.

Some Gold are Silver.

Conclusion

(A) Some Pearl are Diamond.

(B) Some Pearl can be Diamond.

(C) All Stone being Silver is a possibility.

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Q.16

Statement

All Good are Bad.

Some Bad are Intelligent.

All Intelligent are Boy.

No Boy is Black.

Conclusion

(A) Some Black being Intelligent is a possibility.

(B) Some Intelligent are Good.

(C) Some Boy are Bad.

(D) All Boy are Good.

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Q.17

Statement

All Principals are Amount.

Some Amount are Interest.

Conclusion

(A) All Interest being Principal is a possibility.

(B) Some Interest are not Amount.

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Q.18

Statement

Some Paper are Copy.

No Copy is a Book.

Conclusion

(A) All Book being Paper is a possibility.

(B) All Paper are Book.

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Q.19

Statement

All Bicycle are Bike.

Some Bike are Car.

No Car is a Crane.

Conclusion

(A) All Bicycls being Car is a possibility.

(B) Some Bike are not Crane.

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Q.20

Statement

All Branches are Trees.

No Tree is a Flower.

Some Flowers are Leavs.

Conclusion

(A) Some Leavs are Branch.

(B) No Leavs is a Tree.

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Q.21

Statement

Some Pet's are Dog.

All Dog's are Cat.

Conclusion

(A) All Dog's being Pet's is a possibility.

(B) At least Some Cat's are Pet's.

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Q.22

Statement

Some A are B.

Some B are C.

No C is a D.

Conclusion

(A) At least Some C are A.

(B) All D being B is a possibility.

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Q.23

Statement

Some Stars are Moons.

All Moons are Planets.

No Planet is a Universe.

Conclusion

(A) At least Some Planets are Stars.

(B) No Moon is Universe.

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Q.24

Statement

Some Flats are Apartments.

No Apartment is a Hall.

Some Halls are Rooms.

Conclusion

(A) At least Some Rooms are Flats.

(B) No Apartment is a Room.

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Options :-

(1) If only Conclusion 1 follows.

(2) If only Conclusion 2 follows.

(3) If either Conclusion 1 or Conclusion 2 follows.

(4) If neither Conclusion 1 nor Conclusion 2 follows.

(5) If both the Conclusion 1 and Conclusion 2 follows.

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