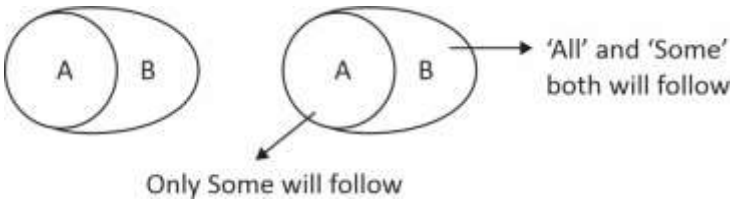
Study Notes On Syllogism

Type I

STATEMENT: All A is B

Venn diagram:



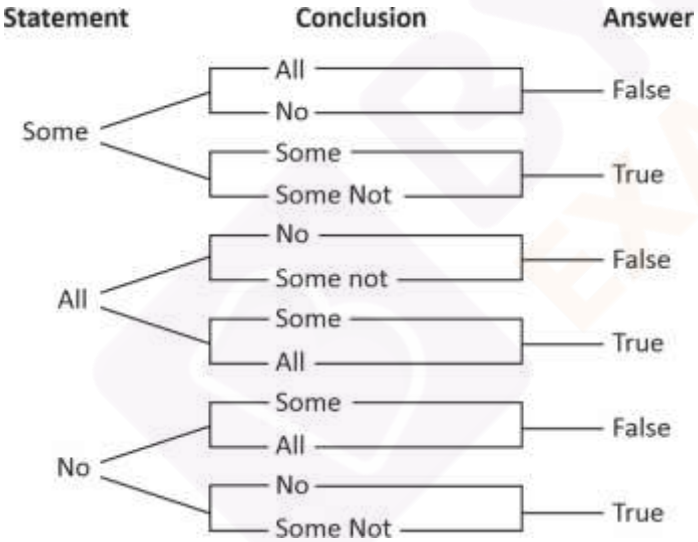
Conclusions:

I) All A is B

ii) Some A is B

iii) Some B is A

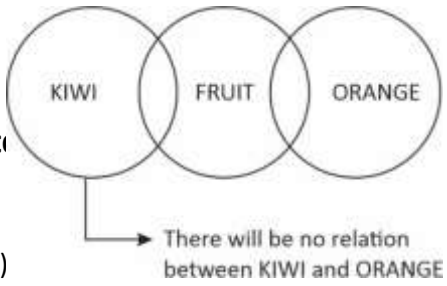
Type II



Type III

Statement: Some KIWI is FRUIT

Some FRUIT is ORANGE



C

i)

ii)

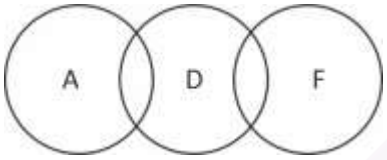
iii) Some FRUIT is ORANGE

iv) Some ORANGE is FRUIT

Type IV

STATEMENT: Some 'A' is 'D' All 'D' is 'F'

Venn Diagram



CONCLUSION:

i) Some A is D

ii) Some A is F

iii) Some F is A

iv) Some F is D

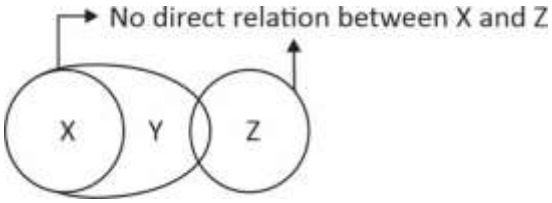
v) some F is F

vi) All D is F

Type V

STATEMENT: All X is Y. Some Y is Z

Venn Diagram:



CONCLUSION:

i) All X is Y

ii) Some X is Y

iii) Some Y is X

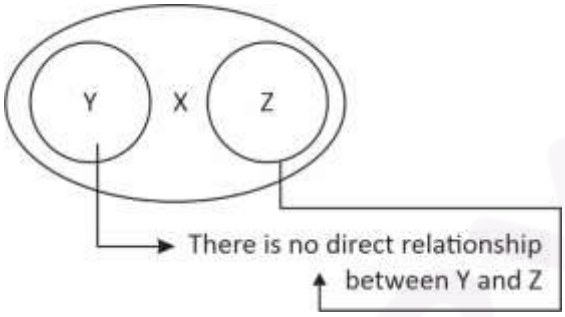
iv) Some Y is Z

v) Some Z is Y

Type VI

STATEMENT: All Y is X. All Z is X

Venn Diagram:



CONCLUSION: -

i) All Y is X

ii) All Z is X

iii) Some Y is X

iv) Some X is Y

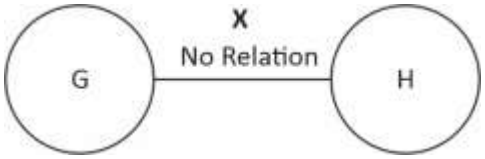
v) Some Z is X

vi) Some X is Z

Type VII

STATEMENT: No G is H

Venn Diagram



ii) No H is G

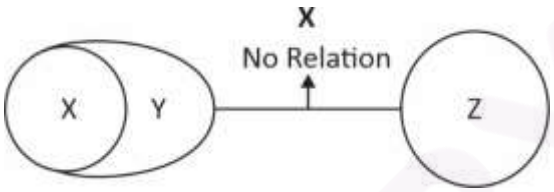
iii) Some G is not H

iv) Some H is not G

Type VII

STATEMENT: All 'X' is 'Y' No 'Y' is 'Z'

Venn Diagram



CONCLUSION: -

i) All X is Y

ii) Some X is Y

iii) Some 'Y' is X

iv) No Y is Z

v) No Z is Y

vi) Some Y is not Z

vii) Some Z is Not Y

viii) No X is Z

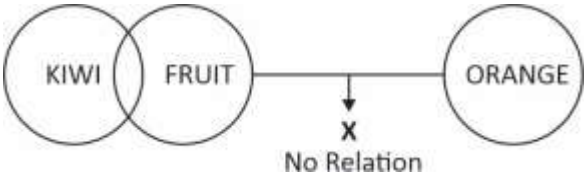
ix) Some X is not Z

xi) Some Z is not X

Type VII

STATEMENT: Some KIWI is FRUIT. No FRUIT is ORANGE

Venn Diagram:



CONCLUSION: -

i) Some KIWI is FRUIT

ii) Some FRUIT is KIWI

iii) No Fruit is ORANGE

iv) No ORANGE is FRUIT

v) Some FRUIT is not ORANGE

vi) Some ORANGE is Not FRUIT

vii) No KIWI is ORANGE

viii) No ORANGE is KIWI

ix) Some KIWI is not ORANGE

X) Some ORANGE is not KIWI

OTHER CASES:

POSSIBILITY CASE: -

When possibility word used in a conclusion, then we have to check: -

a) When 'Some Relation' is given in STATEMENT and All is desired in CONCLUSION

Possibility ⇒ TRUE

b) when No RELATION' is given in STATEMENT and 'All/Some' is desired in the CONCLUSION
POSSIBILITY ⇒ TRUE

These words are possibility in a STATEMENT

→ Possible

→ May be

→ is being possibility

→ is a possible

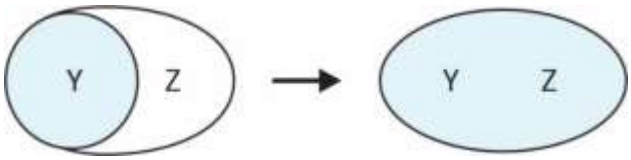
→ Occurs

→ can be

METHOD 1

STATEMENT: All Y is Z

Venn Diagram

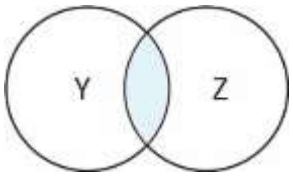


POSSIBILITY: All Z Being Y is a possibility

METHOD 2

STATEMENT: Some Y is Z

Venn Diagram:



Possibility:

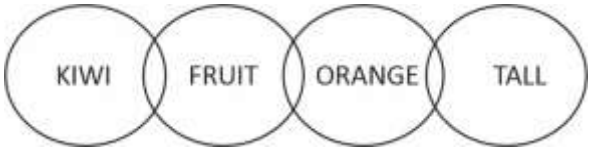
→ All Y being Z is a possibility diagram (1)

→ All Z being Y is a possibility diagram (2)

STATEMENT :

Some KIWI is FRUIT. Some FRUIT is ORANGE.

Some ORANGE is TALL



CONCLUSION:

i) Some KIWI is being ORANGE is a possibility

ii) Some ORANGE being KIWI is a Possibility

iii) Some KIWI being TALL is a Possibility

iv) Some TALL being KIWI is a possibility

v) Some FRUIT being TALL is a Possibility

vi) Some TALL being FRUIT is a Possibility

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