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Syllogism Questions for SBI PO Pre, SBI Clerk, IBPS PO Pre, IBPS Clerk and IBPS SO Pre Exams

SYLLOGISM QUIZ 12

Directions: In each question below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows/follow from the given statements, disregarding commonly known facts.

(1)

Statements:

Some oranges are apples.

All lemons are apples.

No apple is guava.

Conclusions:

I. Some oranges are lemons.

II. All guavas being lemon is a possibility.

III. No orange is a lemon.

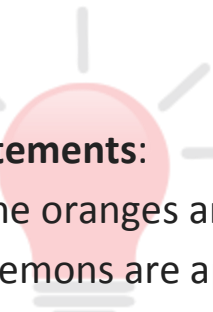
A. Only C3 follows

B. Either C1 or C3 follows

C. Only C2 and C3 follow

D. All follow

E. None of these



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(2)

Statements:

A few mechanics are not plumbers.

All plumbers are qualified.

No qualified is skilled.

Conclusions:

I. No skilled is a plumber.

II. No mechanic is skilled.

III. Some plumbers are not mechanics.

A. Only C1 follows

B. Either C1 or C2 follows

C. Only C2 and C3 follow

D. All follow

E. None of these

(3)

Statements:

No cycle is tyre.

Not a single tyre is tube.

Every tube is puncture.

Conclusions:

I. Some punctures which are tubes are cycles as well.

II. No cycle is a tube.

III. Some punctures are not tyres.

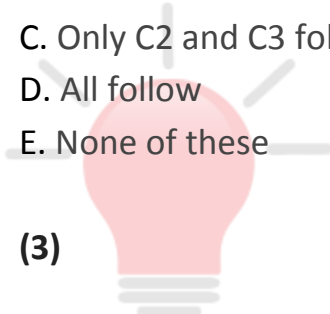
A. Only C3 follows

B. Either C1 or C2 follows

C. Only C2 and C3 follow

D. All follow

E. None of these



(4)

Statements:

No panther is jaguar.

Not a single jaguar is puma.

Every puma is cheetah.

Conclusions:

I. Some cheetah which are puma are panther as well.

II. No panther is a puma.

III. Some cheetah are not jaguar.

A. Only C3 follows

B. Either C1 or C2 follows

C. Only C2 and C3 follow

D. All follow

E. None of these

(5)

Statements:

A few poets are not poetesses.

All poetesses are serious.

No serious is dilligent.

Conclusions:

I. No dilligent is a poetess.

II. No poet is dilligent.

III. Some poetesses are not poets.

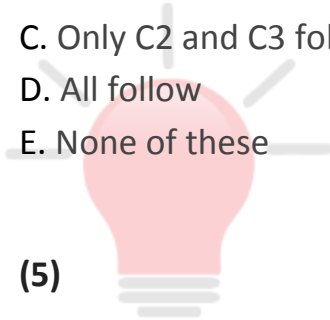
A. Only C1 follows

B. Either C1 or C2 follows

C. Only C2 and C3 follow

D. All follow

E. None of these



(6)

Statements:

No bike is a bus.
All buses are trucks.
All trucks are cars.

Conclusions:

- I. All buses are cars.
 - II. At least some cars are trucks.
- A. Neither I nor II follows
 - B. Only I follows
 - C. Either I or II follows
 - D. Both I and II follow
 - E. Only II follows

(7)

Statements:

No apple is peach.
All peaches are pineapples.

Conclusions:

- I. All mangoes are pineapples.
 - II. Some pineapples are apples.
- A. Neither I nor II follows
 - B. Only I follows
 - C. Either I or II follows
 - D. Both I and II follow
 - E. Only II follows



(8)

Statements:

Some lions are tigers.

Some tigers are panthers.

All panthers are elephants.

Conclusions:

I. Some elephants are tigers.

II. All lions being elephants is a possibility.

A. Neither I nor II follows

B. Only I follows

C. Either I or II follows

D. Both I and II follow

E. Only II follows

(9)

Statements:

At least some Europeans are British.

Every European is an American.

No American is an African.

Conclusions:

All Americans being British is a possibility.

Some Europeans can be Africans as well.

No African is a British.

A. Only I follows

B. I and III follow

C. I and II follow

D. All I, II and III follow

E. None of these



(10)

Statements:

No grasshopper is an insect.

No insect is a bug.

All bugs are moths.

Conclusions:

Some bugs may be grasshoppers.

All moths being insects is a possibility.

No bug is a grasshopper.

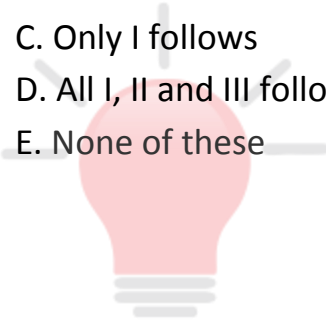
A. Either I or III follows

B. I and III follow

C. Only I follows

D. All I, II and III follow

E. None of these



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Correct answers:

1	2	3	4	5	6	7	8	9	10
B	A	A	A	A	D	A	D	A	C

Explanations:

1.

Checking C1 and C3:

'Some oranges are lemons' and 'No orange is a lemons.

In S1 and S2, we can observe that the middle term 'lemons' is not distributed even once, a definite conclusion can't be derived between these two. And C1 is an I type statement and C2 is an E type statement, they both form a complementary pair (E + I combination).

Therefore, either C1 or C3 follows.

Checking C2:

All guavas being lemons is a possibility.

From S2 and S3,

All lemons are apples + No apple is guava = No lemon is a guava.

Clearly, there is no possibility that exists between 'guava' and 'lemon'.

C2 hence doesn't follow.

Evidently, either C1 or C3 follows.

Clearly, option B is the correct answer.

2.

Checking C1:

No skilled is a plumber.

From S1 and S2,

All plumbers are qualified (A) + No qualified is skilled (E) = No plumber is killed or No skilled is a plumber.

C1 hence follows.

Checking C2:

No mechanic is skilled.

Clearly, S1 in which the class 'mechanics' exists is an O type statement, we can't derive a definite relationship of it with any other statement.

Clearly, C2 doesn't follow.

Checking C3:

Some plumbers are not mechanics.

From S1,

A few mechanics are not plumbers.

But as conversion of an O type statement is not valid, C3 doesn't follow either.



Evidently, only C1 follows.

Option A is hence the correct answer.

3.

Checking C1:

Some punctures which are tubes are cycles as well.

If we observe the given statements, we can find that in Statement 1 and 2, the middle term 'tyre' is distributed twice and therefore even after conversing either of the sentence we won't be able to find a definite conclusion out of these two. Therefore, we can't derive a definite relationship between 'tube' and 'cycle'.

C1 hence doesn't follow.

Checking C2:

No cycle is a tube.

Following the logic explained above, we can clearly say that C2 doesn't follow either.

Checking C3:

Some punctures are not tyres.

From S2 and S3,

Not a single tyre is tube (E) + Every tube is puncture (A) = Some punctures are not tyres.

Clearly, C3 follows.

Among all, only C3 follows. Option A is hence the correct answer.

4.

Checking C1:

Some cheetah which are puma are panther as well.

If we observe the given statements, we can find that in Statement 1 and 2, the middle term 'jaguar' is distributed twice and therefore even after conversing either of the sentence we won't be able to find a definite conclusion out of these two. Therefore, we can't derive a definite relationship between 'puma' and 'panther'.

C1 hence doesn't follow.

Checking C2:

No panther is a puma.

Following the logic explained above, we can clearly say that C2 doesn't follow either.

Checking C3:

Some cheetah are not jaguar.

From S2 and S3,

Not a single jaguar is puma (E) + Every puma is cheetah (A) = Some cheetah are not jaguar.

Clearly, C3 follows.

Among all, only C3 follows. Option A is hence the correct answer.

5.

Checking C1:

No dilligent is a poetess.

From S1 and S2,

All poetesses are serious (A) + No serious is dilligent (E) = No poetess is dilligent or No dilligent is a poetess.

C1 hence follows.

Checking C2:

No poet is an dilligent.

Clearly, S1 in which the class 'poets' exists is an O type statement, we can't derive a definite relationship of it with any other statement.

Clearly, C2 doesn't follow.

Checking C3:

Some poetesses are not poets.

From S1,

A few poets are not poetesses.

But as conversion of an O type statement is not valid, C3 doesn't follow either.

Evidently, only C1 follows.

Option A is hence the correct answer.

6.



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Statements:

No bike is a bus.

All buses are trucks.

All trucks are cars.

Conclusions:

I. All buses are cars.

II. At least some cars are trucks.

All buses are trucks (A) + All trucks are cars (A) = A + A = All buses are cars.
Hence, conclusion I follows.

All trucks are cars – converse – Some cars are trucks. Hence, conclusion II follows.

Option. D is the right answer.

7.

Statements:

All mangoes are apples.

No apple is peach.

All peaches are pineapples.

Conclusions:

I. All mangoes are pineapples.

II. Some pineapples are apples.

Checking C1:

All mangoes are pineapples.

The class 'mangoes' is in Statement 1 and 'pineapples' is in Statement 3 and the link or middle term is available in Statement 2 which is an E type statement. Clearly, using these we can't have an A type conclusion. C1, clearly, doesn't follow.

Checking C2:

Some pineapples are apples.

Applying the same logic, we can't get a positive conclusion using Statement 2 and Statement 3. C2, doesn't follow either.

Option A is hence the correct answer.

8.

Statements:

Some lions are tigers.

Some tigers are panthers.

All panthers are elephants.

Conclusions:

I. Some elephants are tigers.

II. All lions being elephants is a possibility.

Checking C1:

Some elephants are tigers.

Some tigers are panthers + All panthers are elephants = Some tigers are elephants. Clearly, C1 follows.

Checking C1:

All lions being panthers is a possibility.

Here, no negative statement is given among the statements. Clearly, possibilities

between classes do exist. C2 follows as well.

Option D is hence the correct answer.

9.

Given Statements:

At least some Europeans are British.

Every European is an American.

No American is an African.

Given conclusions:

All Americans being British is a possibility.

Some European can be Africans as well.

No African is a British.

Checking Conclusion 1:

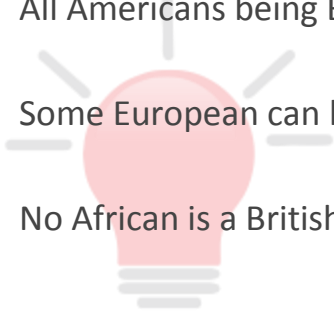
All Americans being British is a possibility.

Using S1 and S2, we get

At least some Europeans are British + Every European is an American =
Some British are Americans.

Converse of it = Some Americans are British

Now, if some Americans are British, what are the rest of the Americans?
they could be British too or they could not be British.



Considering the first possibility, we can say that 'All Americans being British is a possibility.'

Conclusion 1 follows here.

Checking Conclusion 2:

Some Europeans can be Africans as well
Using S2 and S3, we get

Every European is an American + No American is an African = No European is African

Clearly, there is no scenario of possibility exists between the classes 'Europeans' and 'Africans'. Therefore, C2 doesn't follow.

Checking Conclusion 3:

No African is a British

Using S1 and the conclusion derived above, we get At least some Europeans are British + No European is African = Some British are not Africans.

Clearly, C3 doesn't follow either.

Option A is hence the correct answer.

10.

Given Statements:

No grasshopper is an insect.

No insect is a bug.

All bugs are moths.

Given Conclusions:

Some bugs may be grasshoppers.

All moths being insects is a possibility.

No bug is a grasshopper.

Checking Conclusion 1 and 3:

Some bugs may be grasshoppers & No bug is a grasshopper

As we can observe that both S1 and S2 are E-type statements, the middle term 'insect' is distributed twice here. Therefore, we can't define a definite relationship between these two classes. Clearly, possibilities do exist between 'bug' and 'grasshopper'.

This confirms that C1 follows but C3 doesn't.

Checking Conclusion 2:

All moths being insects is a possibility.



Using S3 and S2, we get Converse of S3 (All bugs are moths) + Converse of S2 (No insect is a bug) Some moths are bugs + No bug is an insect = Some moths are not insects Now, when some moths are already not insects, all moths being insects is not possible.

C2, hence, doesn't follow.

Evidently, option C is the correct answer.



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