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Syllogism Questions for SBI PO Pre, SBI Clerk Mains, IBPS PO Pre, IBPS Clerk Mains, IBPS SO Pre and RRB Scale I Pre Exams.

Syllogism Quiz 14

Directions: In each question 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 and then decide which of the given conclusions logically follows from the given statements.

1. **Statements:**
   A few daughters are not mothers.
   All mothers are sisters.
   No sister is a niece.

   Conclusions:
   I. No niece is a mother.
   II. No daughter is a niece.
   III. Some mothers are not daughters.
   IV. Some nieces are both mothers and daughters.

   A. Only C3 follows   B. Either C1 or C2 follows   C. Only C2 and C3 follow
   D. All follow   E. None of these

2. **Statements:**
   Some SRKs are actors.
   All actresses are actors.
   No actor is musician.

   Conclusions:
   I. Some SRKs are actresses.
   II. All musicians being actresses is a possibility.
   III. No SRK is an actress.
   IV. Some actors not being SRK is a possibility.

   A. Only C2 follows   B. Either C1 or C3 and C2 and C4 follow   C. Only C2 and C4 follow
   D. All follow   E. None of these

3. **Statement:**
   No whale is shark.
   Not a single shark is fish.
   Every fish are deer.

Conclusions:
I. Some deer which are fish are whale as well.
II. No whale is a fish.
III. Some deer are not shark.
IV. No whale is a deer.

A. Only C3 follows   B. Only C1, C2 and C3 follow   C. Only C2 and C4 follow
D. All follow   E. None of these

4.   **Statements:**
All apples are red.
No red is a mango.
All mangoes are sweet.

Conclusions:
I. All apples being sweet is a possibility.
II. No sweet is an apple.

A. if only conclusion I follows B. if only conclusion II follows   C. if either conclusion I or II follows
D. if neither conclusion I nor II follows   E. if both conclusions I and II follow

5.   **Statements:**
Some rabbits are black.
No black is a tall.
All tall are white.

Conclusions:
I. Some white are not black.
II. All rabbits being tall is a possibility.

A. if only conclusion I follows   B. if only conclusion II follows   C. if either conclusion I or II follows
D. if neither conclusion I nor II follows   E. if both conclusions I and II follow

6.   **Statements:**
Some questions are answers.
Some answers are explanations.
All explanations are lengthy.
No lengthy is a summary.

Conclusions:
I. No explanation is summary.
II. Some lengthy are answers.

III. Some answers are not summary.

A. Only conclusion I follows   B. Only conclusion II follows   C. Both conclusion I and II are true
D. All conclusions follow   E. None of the above

7.   **Statements:**
Some stars are planets.
All planets are comets.
No comet is asteroid.
Some asteroids are eclipse.

Conclusions:
I.   Some asteroids are stars.
II.   Some eclipse being comet is possibility.
III.   No asteroid is star.

A. Only conclusion I follows   B. Only conclusion II follows   C. Only conclusions I and III follow
D. Either conclusion I or II follows   E. Either conclusion I or III and conclusion II follow

8.   **Statements:**
Some companies are industries.
Some industries are primary.
All primary are services.
All services are secondary

Conclusions:
I.   All companies being primary is possibility.
II.   All services are not primary.
III.   No industry is secondary.

A. Only conclusion I follows   B. Only conclusion II follows   C. Only conclusion I and III follow
D. All conclusions follow   E. None of the above

9.   **Statements:**
No bulb is a tubelight.
All tubelights are chairs.
All chairs are tables.
Conclusions:
I. All tubelights are tables.
II. At least some tables are chairs.

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

10. **Statements:**
All swans are peacocks.
No peacock is hen.
All hens are ducks.

Conclusions:
I. All swans are ducks.
II. Some ducks are peacocks.

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

Correct Answers:

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

Explanations:

1. **Checking C1:** No niece is a mother.

From S1 and S2,
All mothers are sisters (A) + No sister is a niece (E) = No mother is a niece or No niece is a mother.

C1 hence follows.

Checking C2: No daughter is a niece.
Clearly, S1 in which the class 'daughter' 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 mothers are not daughters.
From S1,

A few daughters are not mothers.

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

Checking C4: Some nieces are both mothers and daughters.
Following the logic explained C2, we can eliminate C4 as well.

Evidently, only C1 follows. Option E is hence the correct answer.

2. **Checking C1 and C3:** 'Some SRKs are actresses' and 'No SRK is an actress.'
In S1 and S2, we can observe that the middle term 'actors' 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 musicians being actresses is a possibility.
From S2 and S3,

All actresses are actors + No actor is musician = No actress is a musician.
Clearly, there is no possibility that exists between 'actress' and 'musician'.
C2 hence doesn't follow.

Checking C4: Some actors not being SRK is a possibility.
From S1,

Some SRKs are actors.
Converse of it = Some actors are SRK.
Now, if some actors are SRK, what are the other actors? They could be either SRK too or they could not be SRK.
Following the latter notion, we can say that 'Some actors not being SRK' is a possibility.
C4 hence follows.
Evidently, either C1 or C3 and C4 follow.

Clearly, none of these (option E) is the correct answer.

3. **Checking C1:** Some deer which are fish are whale as well.
If we observe the given statements, we can find that in Statement 1 and 2, the middle term 'shark' 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 'deer' and 'whale'.

C1 hence doesn't follow.

Checking C2: No whale is a fish.
Following the logic explained above, we can clearly say that C2 doesn't follow either.

Checking C3: Some deer are not shark.
From S2 and S3,
Not a single shark is fish (E) + Every fish are deer (A) = Some deer are not shark.
Clearly, C3 follows.

Checking C4: No whale is a deer.
Here, once again we are asked to derive a relationship between 'whale' and 'deer'. Clearly, C4 doesn't follow.
Among all, only C3 follows. Option A is hence the correct answer.

4. All apples are red (A) + No red is a mango (E) = A + E = E = No apple is a mango, now
No apple is a mango (E) + All mangoes are sweet (A) = E + A = O* = Some sweet are not apples.

Hence, conclusion I follows, but conclusion II does not follow.

Hence, option A is correct.

5. No black is a tall (E) + All tall are white (A) = E + A = O* = Some white are not black.

Hence, conclusion I follows.

Again, Some rabbits are black (I) + No black is a tall (E) = I + E = O = Some rabbits are not tall. Thus, the possibility in II does not exist.

Hence, conclusion II does not follow.

Hence, option A is correct.

6. All explanations are lengthy (A) + No lengthy is summary (E) = A + E = **No explanation is a summary**. Hence, conclusion I follows

Some answers are explanations (I) + All explanations are lengthy (A) = I + A = I = Some answers are lengthy – converse – **Some lengthy are answers**. Hence conclusion II follows.

Some answers are lengthy (I) + No lengthy is a summary (E) = **Some answers are not summary**. Hence, conclusion III follows.

So, all the conclusions follow.

Hence, option D is correct.

7. Some stars are planets (I) + All planets are comets (A) = I + A = I = Some stars are comets (I) + No comet is asteroid (E) = I + E = O* = Some stars are not asteroid.

Therefore, conclusion I and III form an I-E type of complementary pair. Therefore, either conclusion I or III follows.

No comet is asteroid – converse – No asteroid is comet; Some asteroid are eclipse – converse – Some eclipse are asteroid

Some eclipse are asteroid (I) + No asteroid is comet (E) = I + E = O* = Some eclipse are not comets. Hence, 'Some eclipse being comet is possibility'.
Hence, option E is correct.

8. Some companies are industries (I) + Some industries are primary (I) = I + I = No conclusion follows but possibility exists because the statement are positive. Hence, conclusion I follows.

As statements II and III are positives therefore, conclusions II and III do not follow.

Hence, option A is correct.

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9. **Statements:**
No bulb is a tubelight.
All tubelights are chairs.
All chairs are tables.

Conclusions:
I. All tubelights are tables.
II. At least some tables are chairs.

All tubelights are chairs (A) + All chairs are tables (A) = A + A = All tubelights are tables. Hence, conclusion I follows.

All chairs are tables – converse – Some tables are chairs. Hence, conclusion II follows.

Option B is hence the correct answer.

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10. **Statements:**
All swans are peacocks.
No peacock is hen.
All hens are ducks.

Conclusions:
I. All swans are ducks.
II. Some ducks are peacocks.

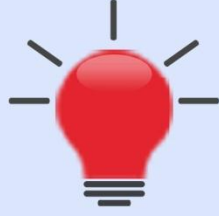Checking C1: All swans are ducks.
The class 'swans' is in Statement 1 and 'ducks' is in Statement 3 and the link or middle term is available in Statement 2 which is an E type statement. Clearly, using these we can't have an A type conclusion. C1, clearly, doesn't follows.

Checking C2: Some ducks are peacocks.
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.

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