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Vendor:OMG

Exam Code:OMG-OCSMP-MBI300

Exam Name:OMG-Certified Systems Modeling
Professional - Model Builder – Intermediate

Version:Demo

QUESTION 1

Choose the correct answer.

Given the following diagram:



What is the significance of typing the connector with an association?

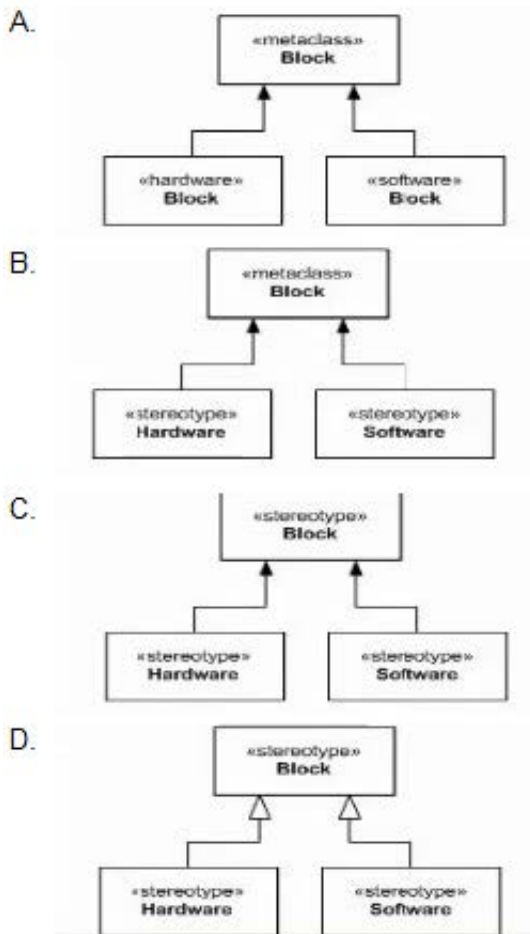
- A. Only items compatible with Card Connection may pass over connector c1. There are no other implications
- B. If SD Card and Card Reader blocks ever have ports, they must be compatible with the Card Connection association
- C. Card Connection represents the pan that d uses to connect SD Card to Card Reader, eg the arrangement of contact points
- D. An association must exist between the SD Card block and Card Reader block, and not just between parts in the Digital Picture Frame block.

Correct Answer: D

QUESTION 2

Choose the correct answer.

Which package diagram fragment depicts the definitions of the stereotypes Hardware and Software?



A. Option A

B. Option B

C. Option C

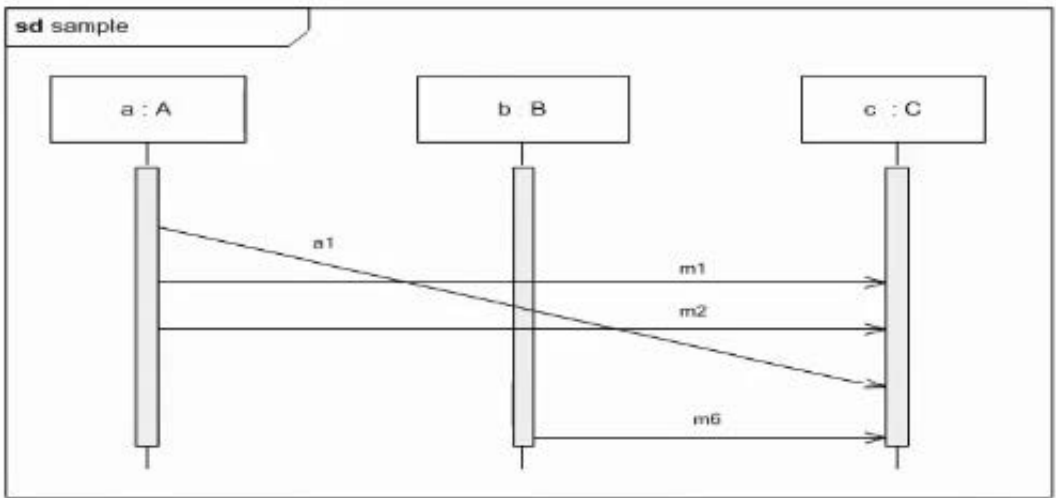
D. Option D

Correct Answer: B

QUESTION 3

Choose the correct answer.

Given the following diagram: What is the order of Interactions?

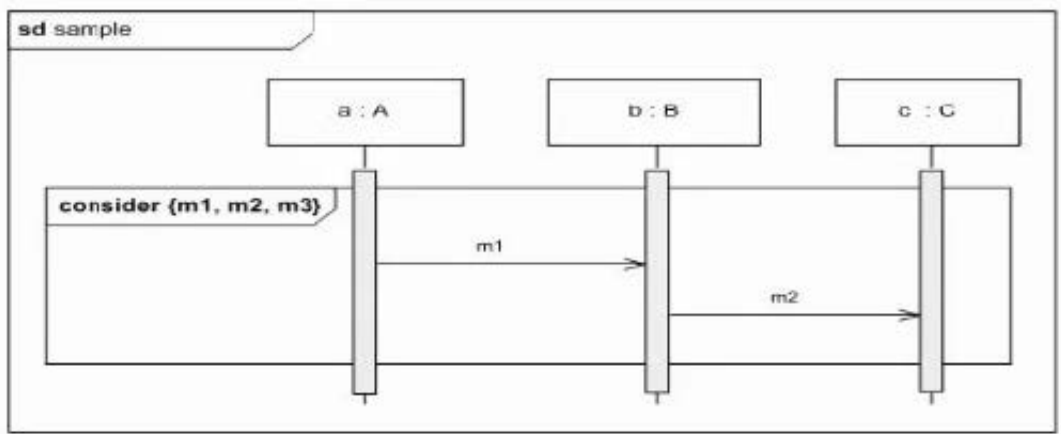


- A. Message a1 overtakes message m1, which is processed after receipt of a1.
- B. Message a1 overtakes messages m1 and m2 and is processed before them.
- C. Message m1 overtakes message a1, which is processed after receipt of m2.
- D. Message m1 overtakes messages a1 and m2 and is processed before them.

Correct Answer: B

QUESTION 4

Choose the correct answer. Given the following diagram:



What is the meaning of the consider fragment?

- A. It is a constraint that prevents adding a nested ignore fragment for any one of m1, m2 or m3.
- B. It ignores all messages other than m1, m2 and m3 in the scenario being described by the interaction
- C. The meaning is undefined because the diagram is ill-formed in the absence of n>3, which must be considered.
- D. It allows the invocation of the operations corresponding to messages m1, m2 and m3 only when they appear in that

order

Correct Answer: A

QUESTION 5

Choose the correct answer

What is an effective and efficient approach to project modeling standards and conventions?

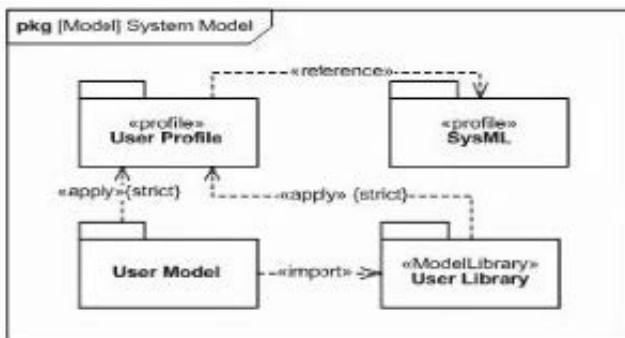
- A. Every project should create its own domain specific profile to describe modeling standards and conventions
- B. Organizations should create specific modeling standards and conventions to ensure modeling consistency across projects
- C. The SysML specification alone is sufficient to describe modeling standards and conventions when the modeling tool has a proper implementation of SysML
- D. The SysML specification and the modeling tool documentation are sufficient to describe modeling standards and conventions

Correct Answer: D

QUESTION 6

Choose the correct answer.

Given the following package diagram depicting profile and model library relationships to a user model.



The User Profile extends SysML with two new stereotypes of Block Hardware and Software. Which bdd fragment is valid, yet does not contain unnecessary or redundant information?



A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: B

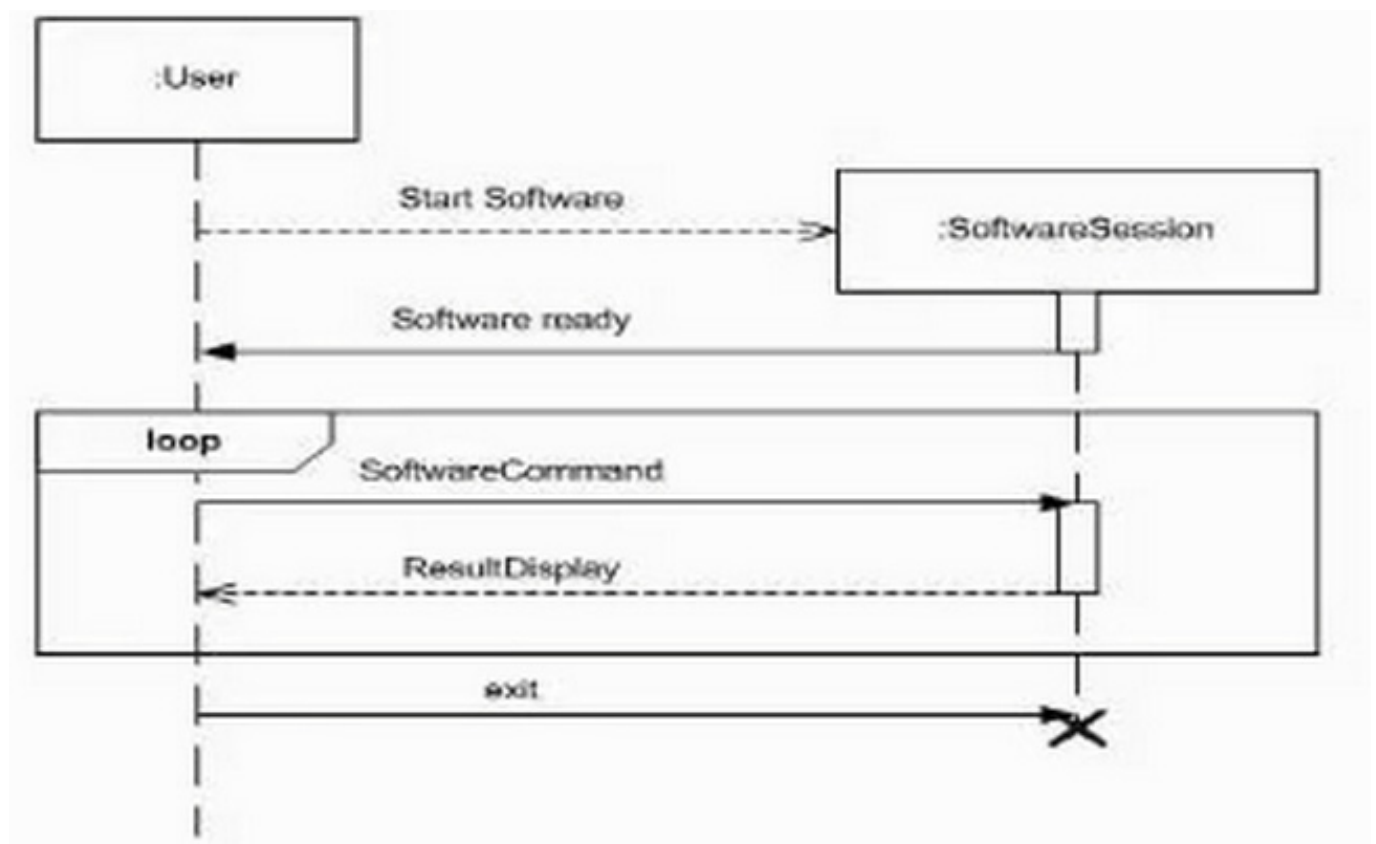
QUESTION 7

HOTSPOT

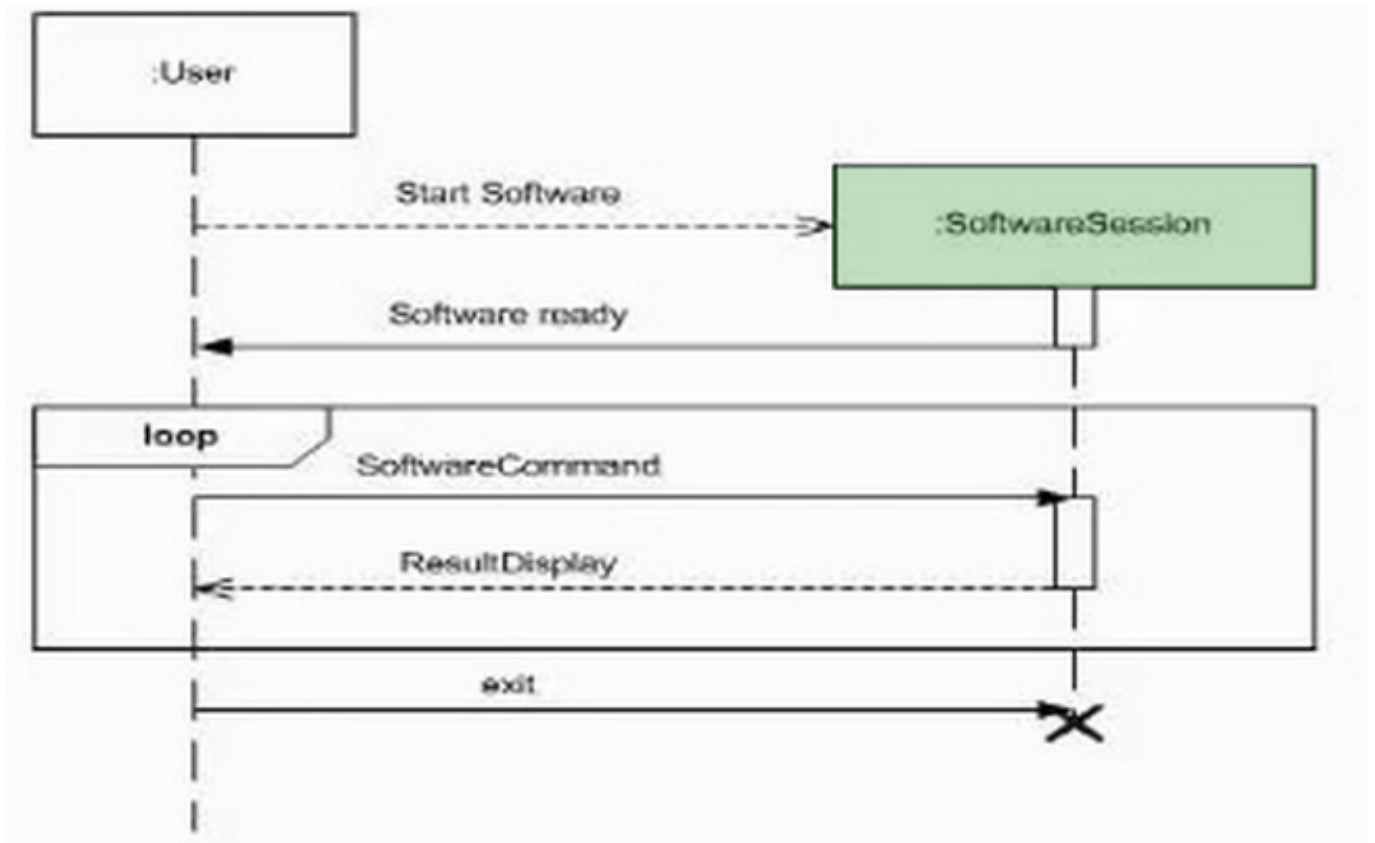
Choose the correct answer.

A project has produced the following initial draft sequence diagram fragment:

Hot Area:



Correct Answer:



QUESTION 8

Choose the correct answer.

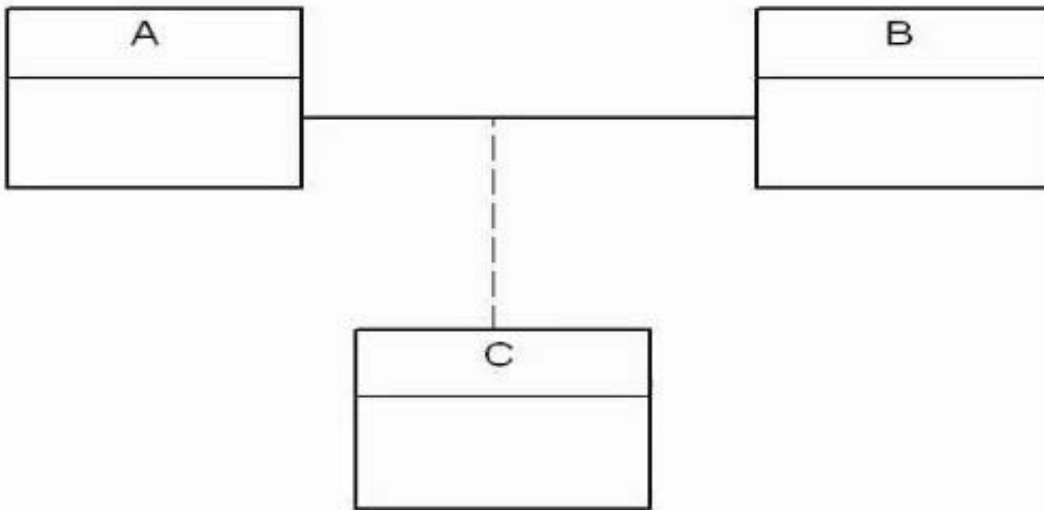
Where can a StateInvariant appear?

- A. on a lifeline in a sd
- B. on a transition in a stm
- C. on an object node in an act
- D. in the states compartment of a block on a bdd

Correct Answer: A

QUESTION 9

Choose the correct answer. Given the following diagram:



What is element C?

- A. a tag value
- B. an association block
- C. a connector property
- D. a connector illustration
- E. a relation information element

Correct Answer: C

QUESTION 10

Choose the correct answer.

The formula for the determinant of a square 2X2 matrix.

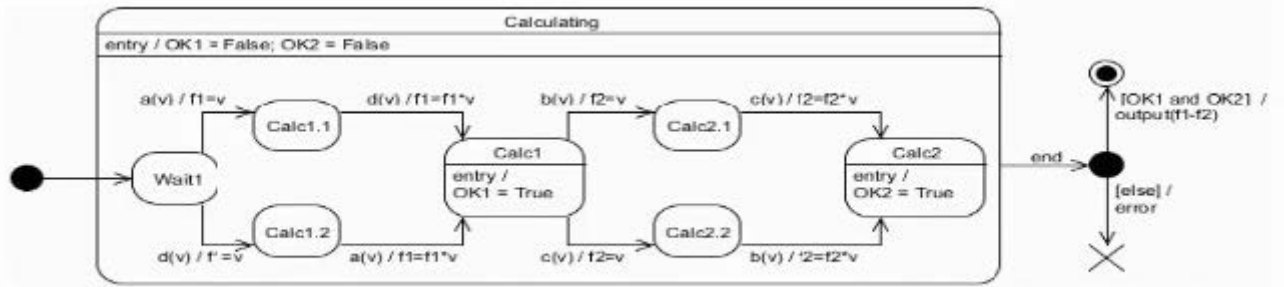
$|ab|$

$|cd|$

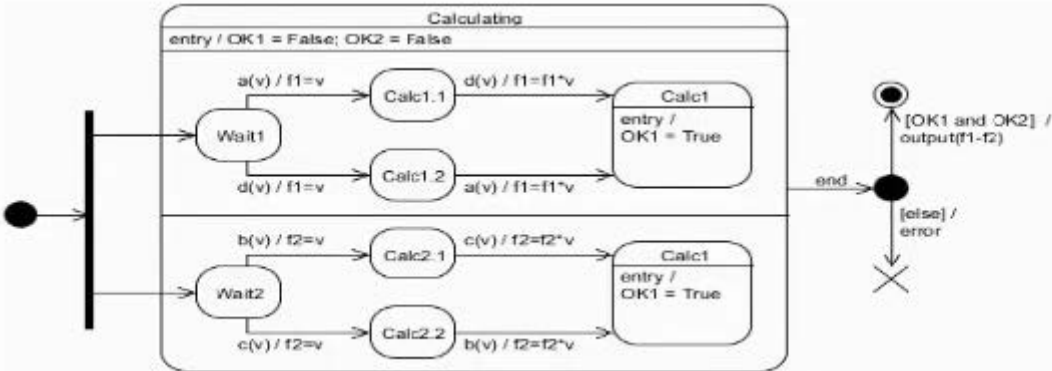
is $a \cdot d - b \cdot c$ A subsystem receives one message for each value (i.e. $a(v)$, $b(v)$, $c(v)$ and $d(v)$ where v is a real number). These messages can be in any order, and the entire sequence is followed by an "end" message. The subsystem must calculate the determinant and output it upon receipt of the end message. If there are multiple messages for one value (e.g. two $a(v)$ messages), or the end message is received before all values have been received, the subsystem should signal an error.

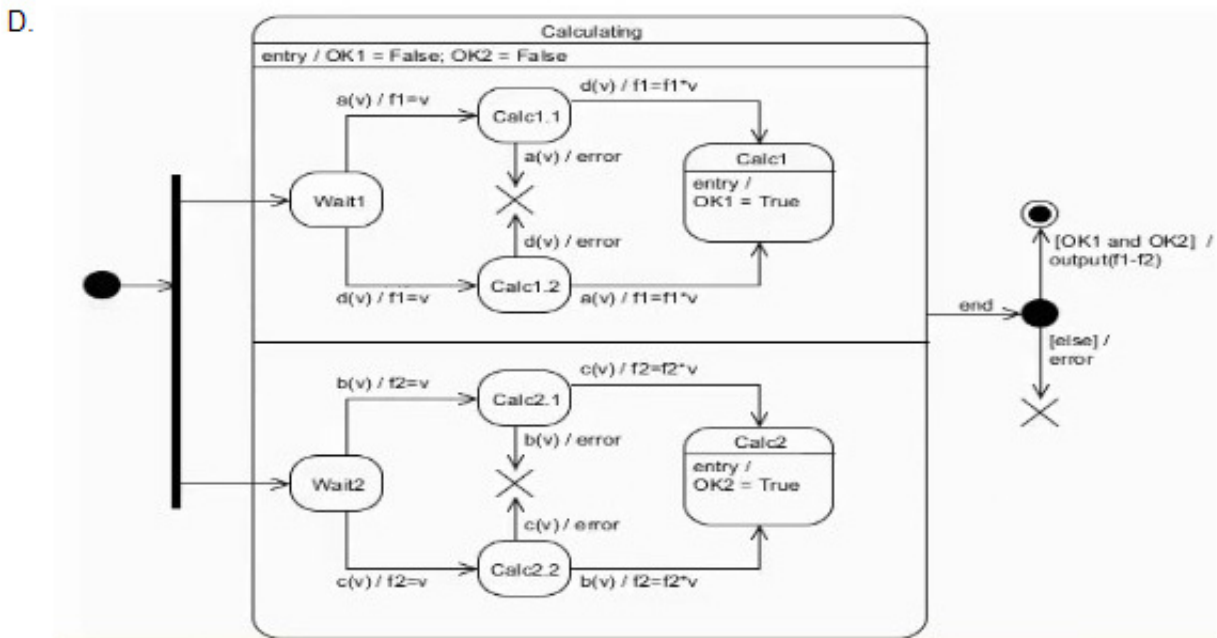
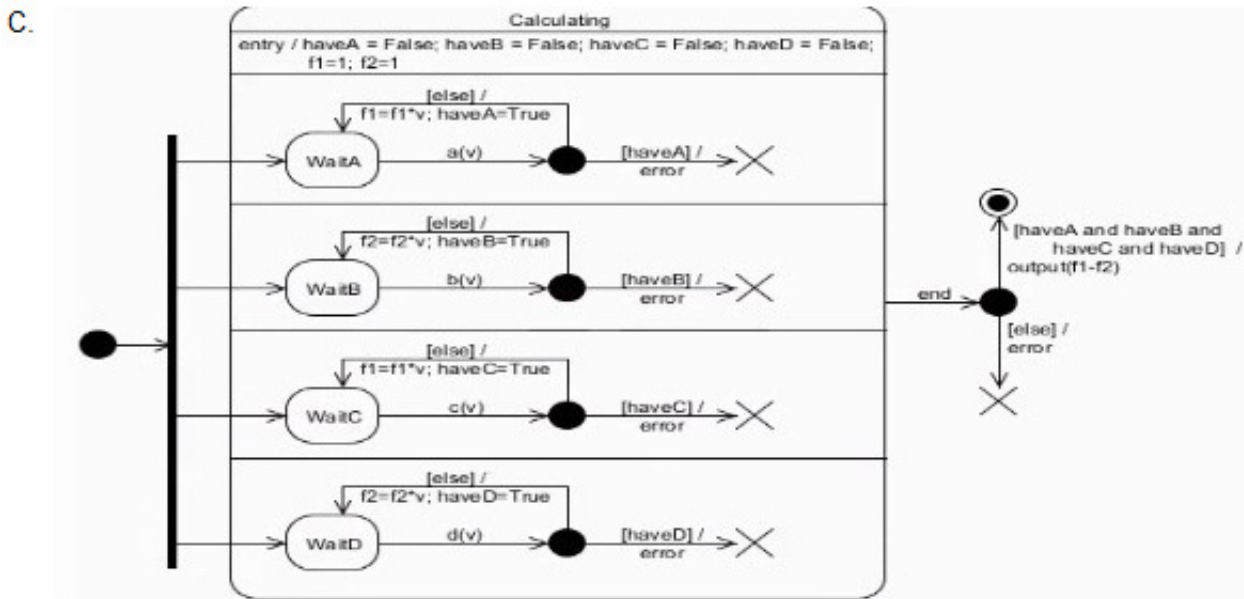
Which state machine correctly models the required behavior? If more than one state machine is correct, select the one with the fewest states.

A.



B.





A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 11

Choose the correct answer

Which SysML construct is used in an activity diagram to associate an actor of a use case with the actions that actor performs?

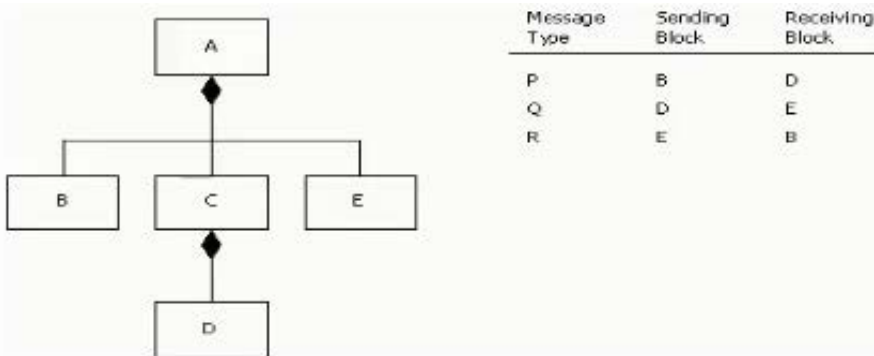
- A. an activity partition enclosing the actions the actor performs
- B. an action allocation of the actor to the actions that actor performs
- C. an association Between the actor and the actions that actor performs
- D. an object node to represent the actor and object flows tying that actor to the actions it performs

Correct Answer: D

QUESTION 12

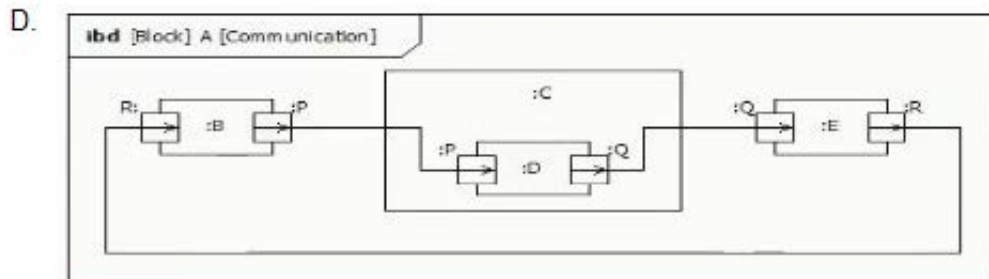
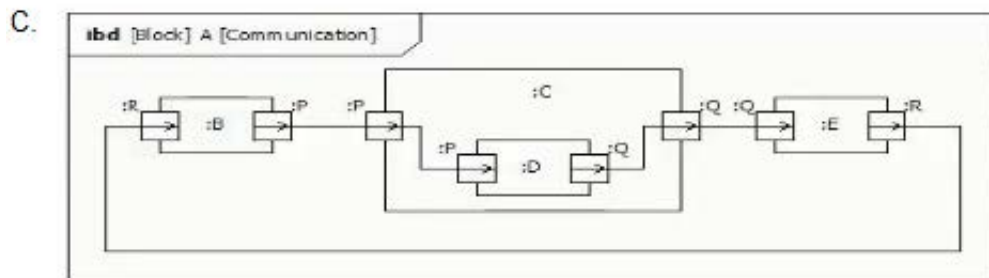
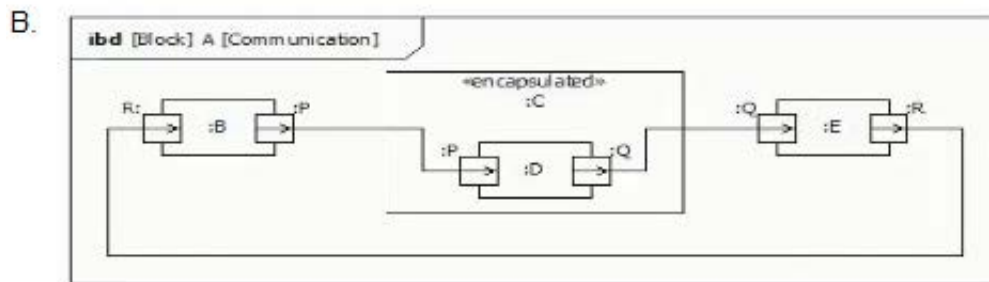
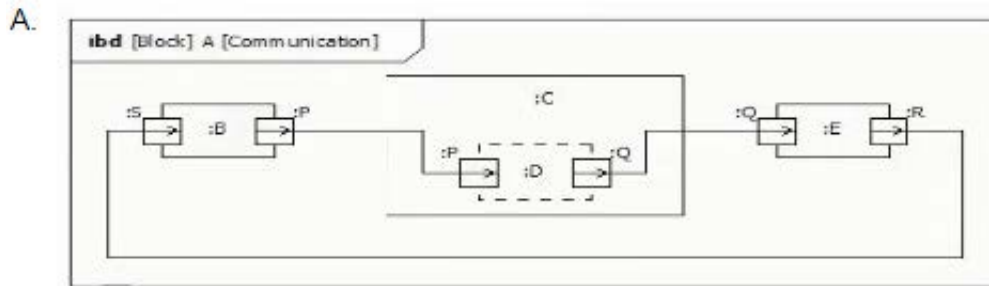
Choose the correct answer.

Given the following bdd fragment and table showing messages sent between blocks:



Block C is encapsulated; none of the other blocks are.

Which lbd for block A has the correct assignment of flow ports and connectors? If two or more options are correct, select the one with the fewest ports.



A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B