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Question 1

Question Type: MultipleChoice

Choose the correct answer.

A system engineer has created a SysML block structure for his system-of-interest. Two of the blocks (M and E) represent system-level abstractions of components that will be designed by a mechanical engineer and an electrical engineer in their respective computer-aided design (CAD) tools.

Given that the CAD models are wrapped as blocks B_mcad and B_ecad, what type of diagram should the system engineer use to quantitatively relate the properties of B_mcad and B_ecad to their system level abstractions M and E respectively?

Options:

- A- an activity diagram
- B- a parametric diagram
- C- an internal block diagram
- D- a block definition diagram

Answer:

B

Question 2

Question Type: MultipleChoice

Choose the correct answer.

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

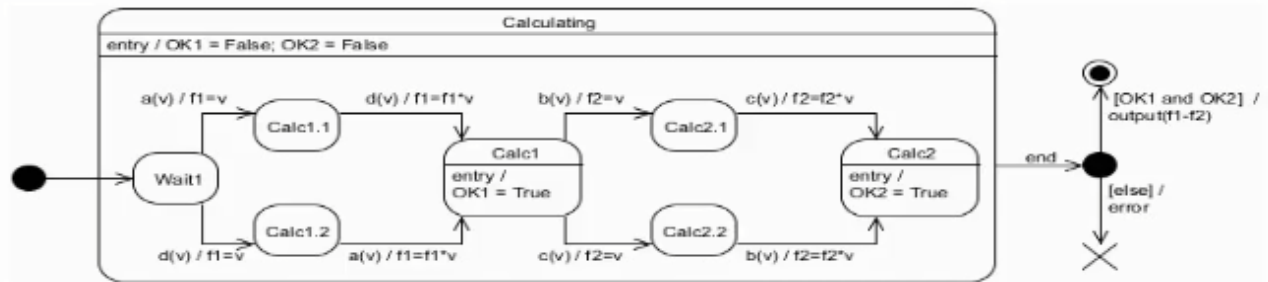
$|ab|$

$|cd|$

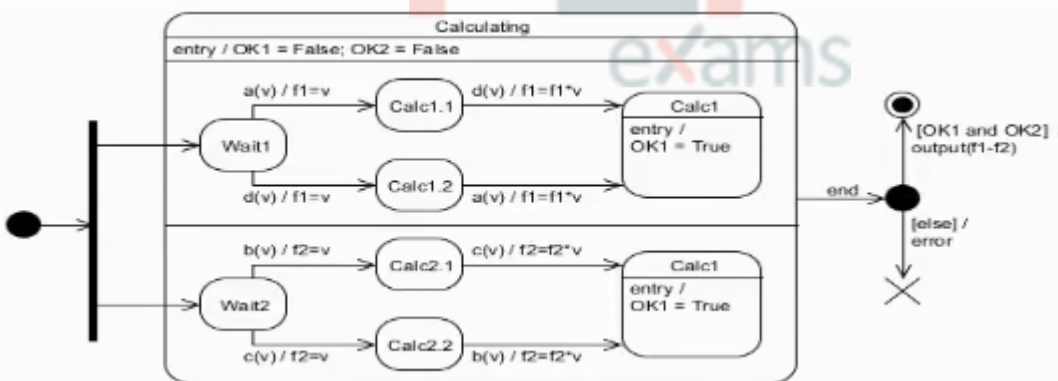
is $a \cdot d - b \cdot c$ A subsystem receives one message for each value (i.e. $a(v)$, $b(v)$, $c(v)$ and $d(v)$ where v is a real number) These messages can be in any order, and the entire sequence is followed by an "end" message. The subsystem must calculate the determinant and output it upon receipt 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.

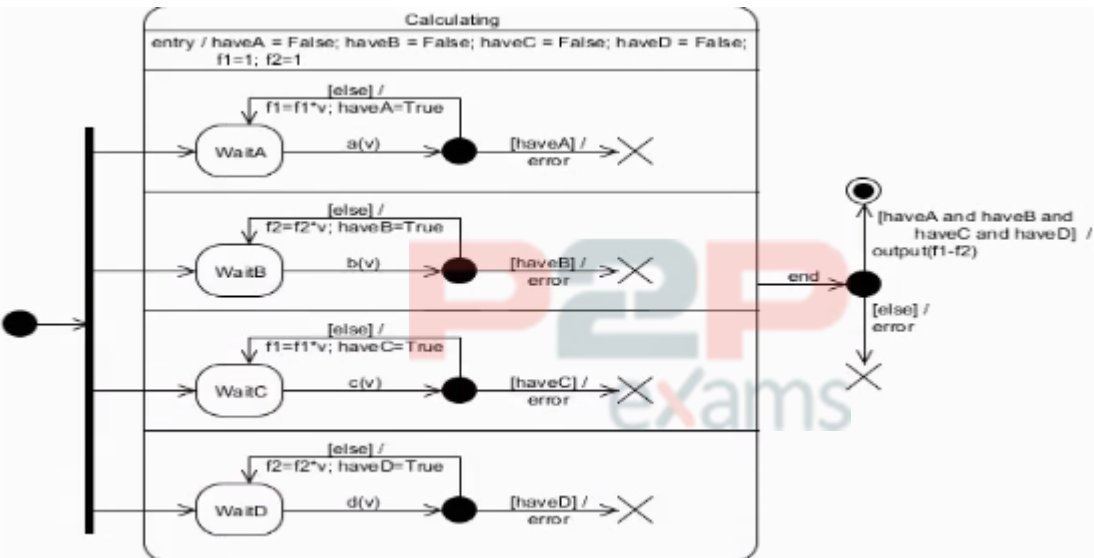
A)



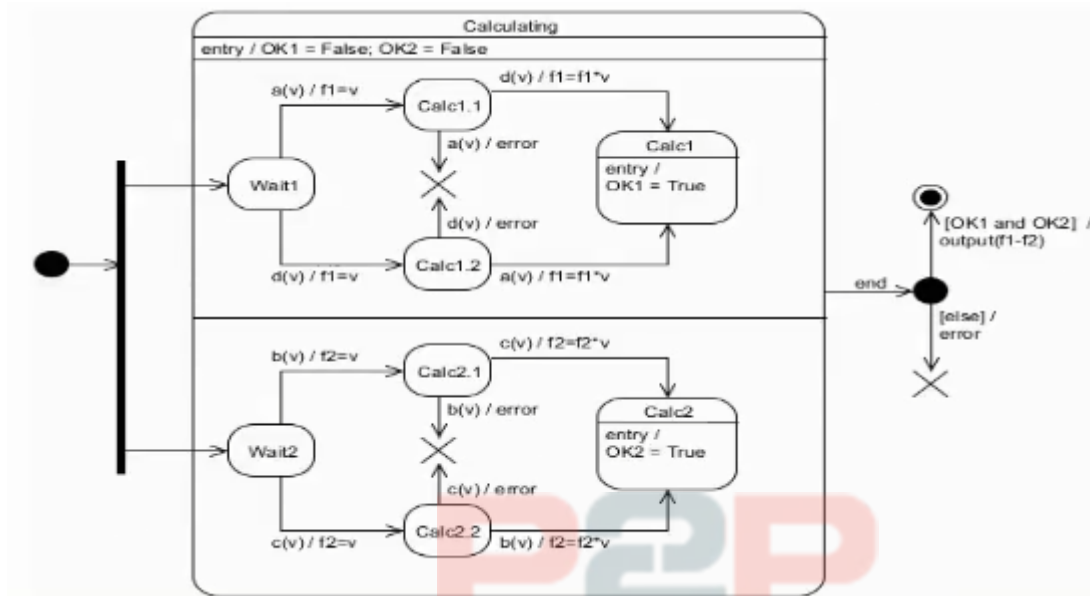
B)



C)



D)



Options:

- A- Option A
- B- Option B
- C- Option C
- D- Option D

Answer:

B

Question 3

Question Type: MultipleChoice

Choose the correct answer

What is an efficient way to represent highly reused patterns of interaction on sequence diagrams?

Options:

- A- an Interaction use referencing an interaction defined on a separate sequence diagram
- B- an interaction template construct that is instantiated from the referring sequence diagram
- C- the call interaction operator with an operand referring to the reusable Interaction defined elsewhere
- D- an activation on the referring sequence diagram allocated to another activation on the

referenced diagram

Answer:

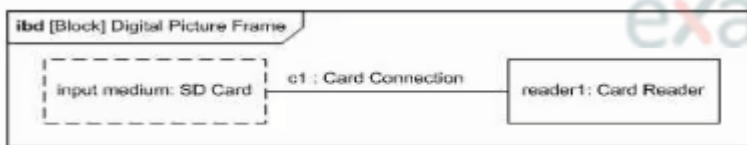
B

Question 4

Question Type: MultipleChoice

Choose the correct answer.

Given the following diagram:



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

Options:

- 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.

Answer:

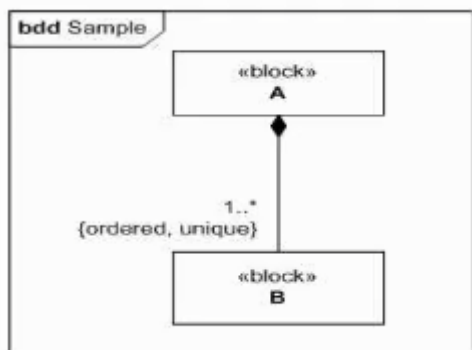
D

Question 5

Question Type: MultipleChoice

Choose the correct answer.

Given the following diagram:



What do the keywords in the braces represent?

Options:

- A- suggestions for improving the efficiency of the design
- B- constraints specifying that the direction of the association is ordered and that an instance of A uniquely consists of instances of B
- C- constraints specifying that the set representing the Instances of P is ordered In the context of the association, and all instances are unique
- D- constraints specifying that all instances of B must be ordered in a unique sequence when they are associated with any instance of block A

Answer:

D

Question 6

Question Type: MultipleChoice

Choose the correct answer

What is a 'control operator'?

Options:

- A- it is an activity that can output control tokens via a parameter node.
- B- It Is the general term for any element of an activity that can handle control tokens.
- C- It Is a special kind of activity node that can be used to control the flow of tokens into an activity.
- D- It Is an activity node that allows a modeler to specify the use of mathematical operators such as plus minus, multiply, or divide.

Answer:

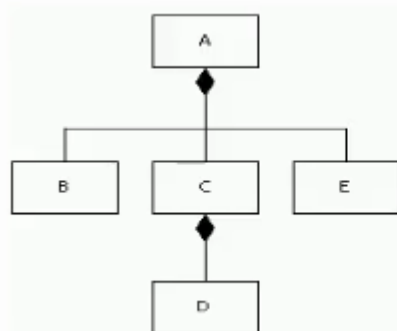
B

Question 7

Question Type: MultipleChoice

Choose the correct answer.

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

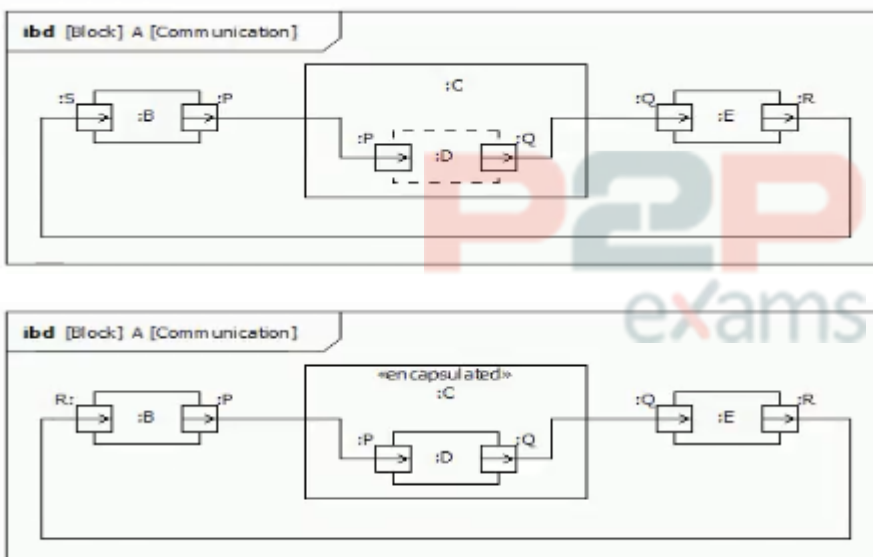


Message Type	Sending Block	Receiving Block
P	B	D
Q	D	E
R	E	B

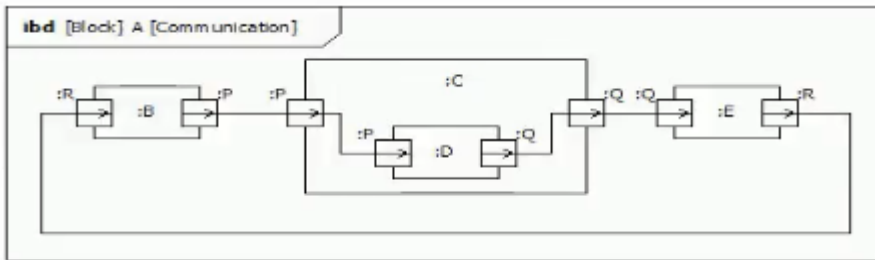
Block C is encapsulated; none of the other blocks are.

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.

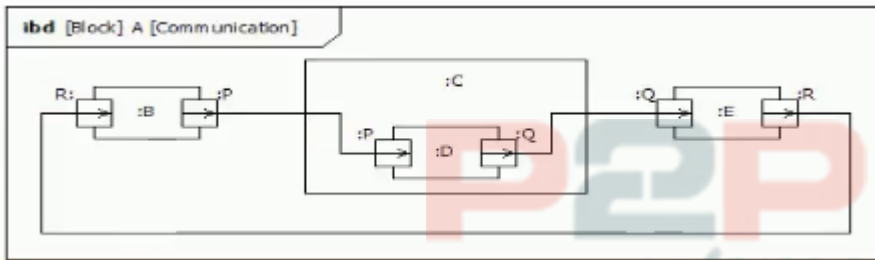
A)



C)



D)



Options:

- A- Option A
- B- Option B
- C- Option C
- D- Option D

Answer:

B

Question 8

Question Type: MultipleChoice

Choose the correct answer

Which statement is true when modeling generalization?

Options:

- A- Subclasses may only redefine existing features of a superclass.
- B- Subclasses may add, remove, and redefine existing features of a superclass
- C- Subclasses may add and remove, but not redefine, existing features of a superclass
- D- Subclasses may add and redefine, but not remove existing features of a superclass
- E- Subclasses may remove or redefine existing features, but not add features, to a superclass.

Answer:

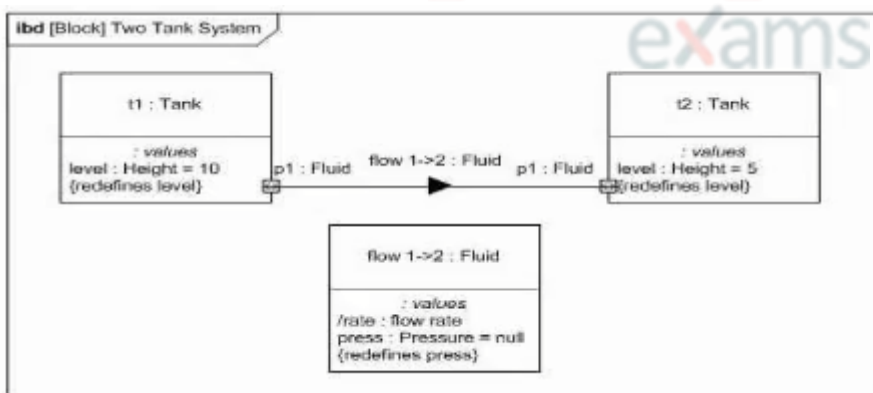
D

Question 9

Question Type: MultipleChoice

Choose the correct answer

A system consists of two identical tanks each containing a different level of fluid. The tanks are connected together by a port at the bottom of each tank. This system is modeled in the following diagram:



Which statement is true?

Options:

- A- The block Fluid, which types item property flow 1 ->2. has a value property press : Pressure with a default value of null
- B- The value property /rate : flow rate is a derived property, which accommodates calculating its value based on oilier properties
- C- Parts t1 and t2 each use part instances to redefine the value of property level : Height
- D- The value of /rate for item property flow 1->2 is positive for flow from t1 to t2. and negative for How in the other direction
- E- Both port p1 on pan t1. and port p1 on t2. must have values defined for value properties /rate and press

Answer:

B

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