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Intermediate

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QUESTION 1

Choose the correct answer

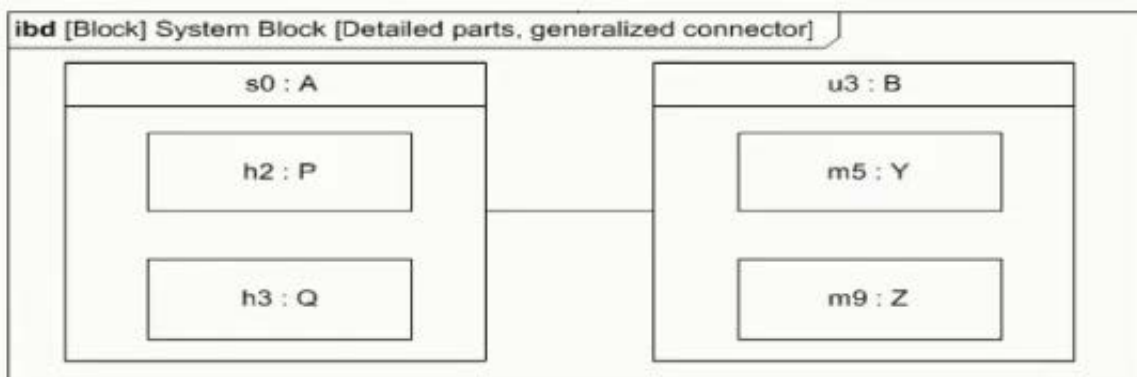
How would a modeler refine a use case textual narrative?

- A. provide a detailed definition of the use case using a behavioral diagram
- B. specify all of the triggers preconditions, and post conditions for the use case
- C. specify all extension points for extend use cases and specify all secondary actors
- D. provide a complete textual description of the main flow and alternative/exceptional flows for the use case

Correct Answer: A

QUESTION 2

Choose the correct answer. Given the following diagram: What needs to be determined in order to model the connection between components s0 and u3 in more detail?



- A. whether component s0 subclasses component u3
- B. which parts of each component participate in the connection
- C. which parts of each component participate in a reference association
- D. whether any part that belongs to component s0 subclasses a part that belongs to component u3

Correct Answer: B

QUESTION 3

Choose the correct answer.

What is the relationship between objective functions and measures of effectiveness (MOEs)?

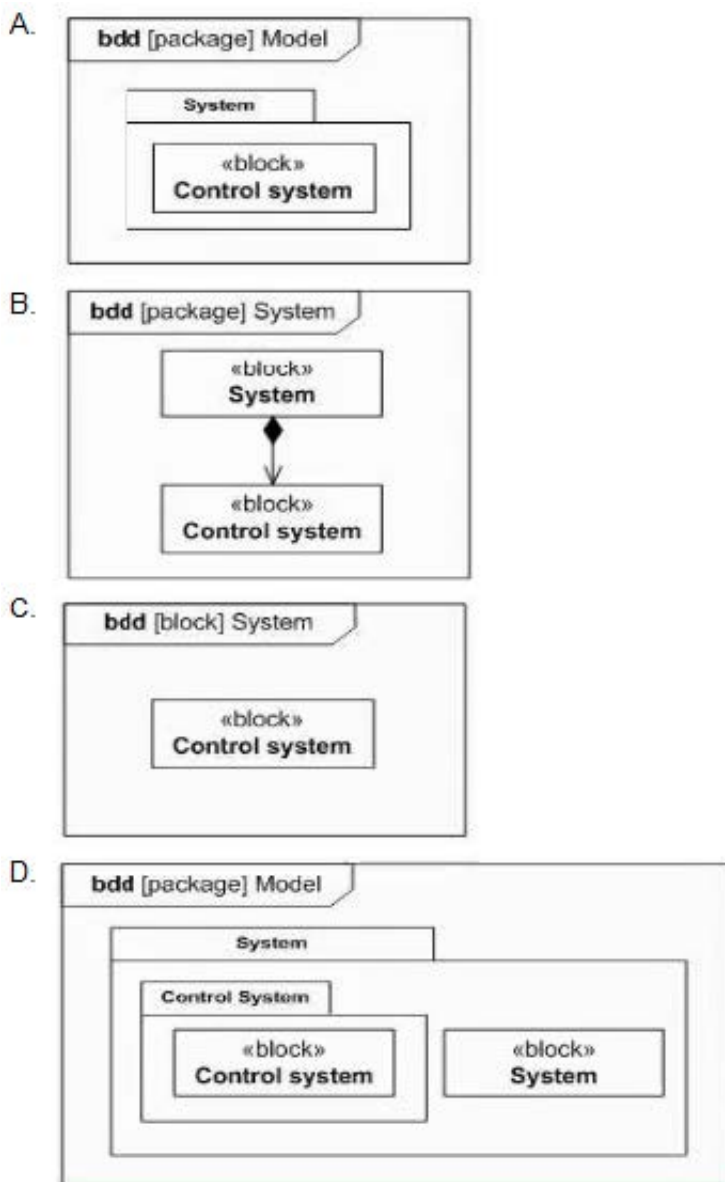
- A. An objective function is usually a function of only one MOE.
- B. An objective function is usually a function of several different MOEs
- C. An MOE is usually composed of only one objective function.
- D. An MOF is usually composed of several different objective functions

Correct Answer: A

QUESTION 4

Choose the correct answer.

Which diagram shows that the control system block is in the namespace of the system block?



A. Option A

B. Option B

C. Option C

D. Option D

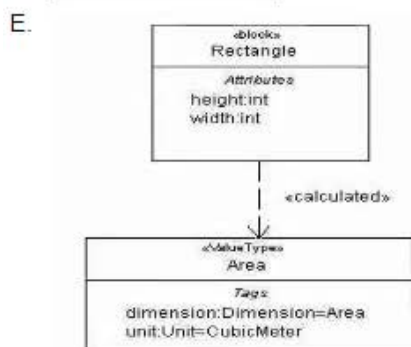
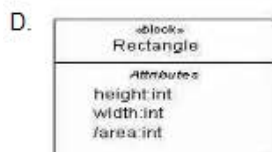
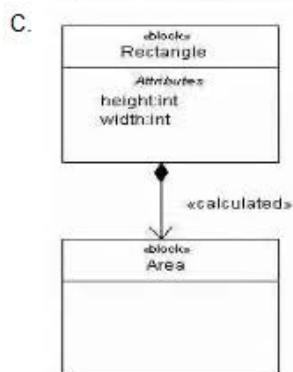
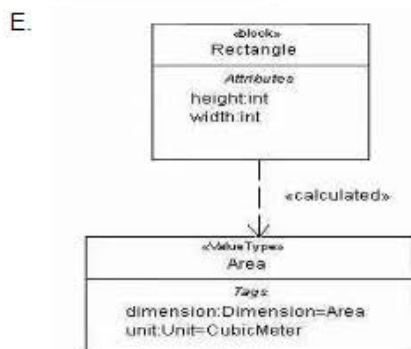
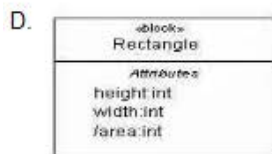
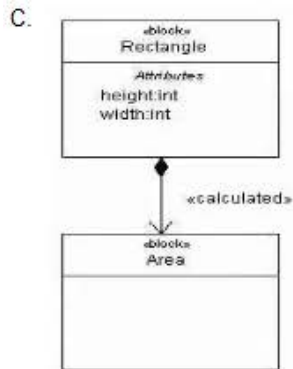
Correct Answer: D

QUESTION 5

Choose the correct answer.

The area of a rectangle is calculated through analysis of its height and width:

How is this represented in a model?



A. Option A

B. Option B

C. Option C

D. Option D

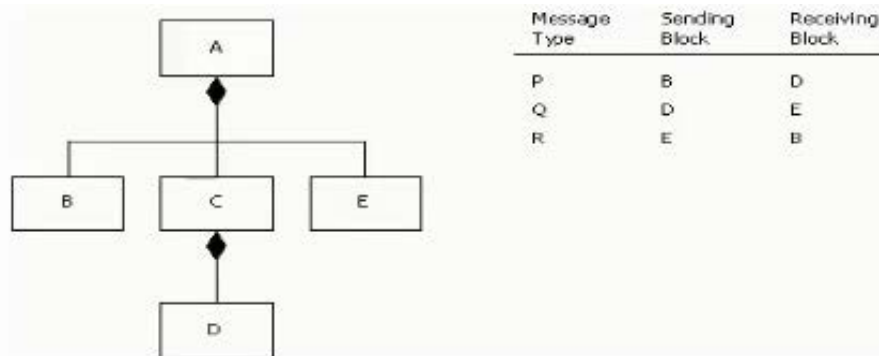
E. Option E

Correct Answer: A

QUESTION 6

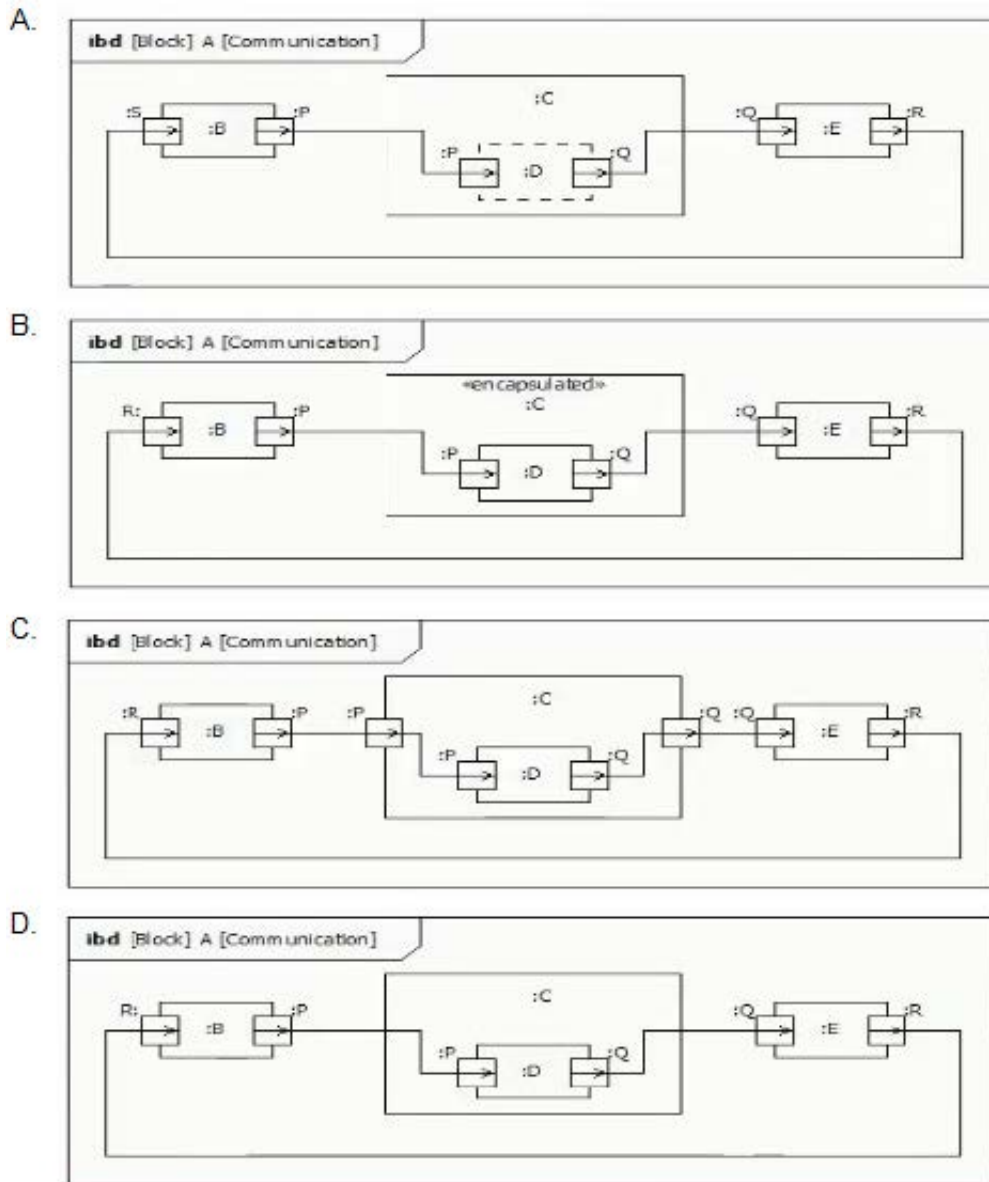
Choose the correct answer.

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

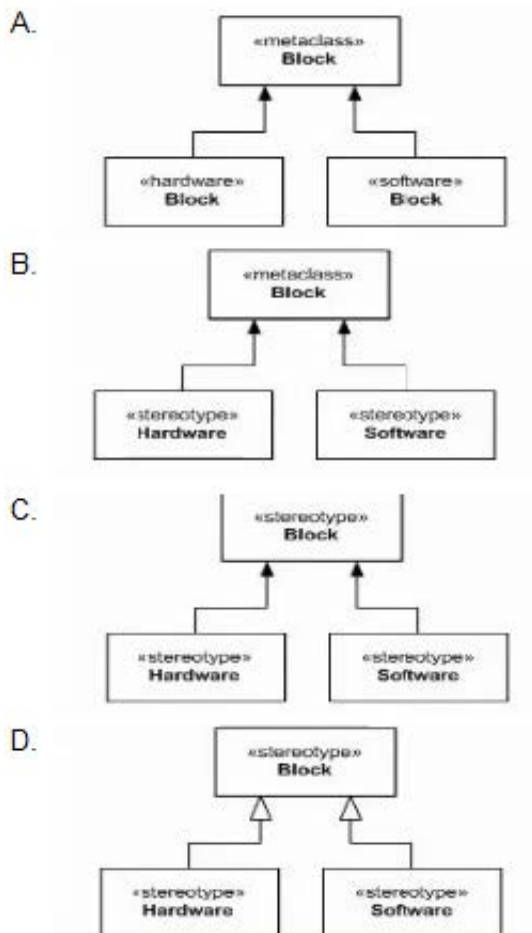
D. Option D

Correct Answer: B

QUESTION 7

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 8

Choose the correct answer

Which statement is true about the read only keyword when it appears next to a property?

A. It states that the corresponding property is provided for reading purposes only

B. It specifies that the corresponding property cannot be redefined

C. It specifies that the value of the corresponding property cannot change during the lifetime of its owner.

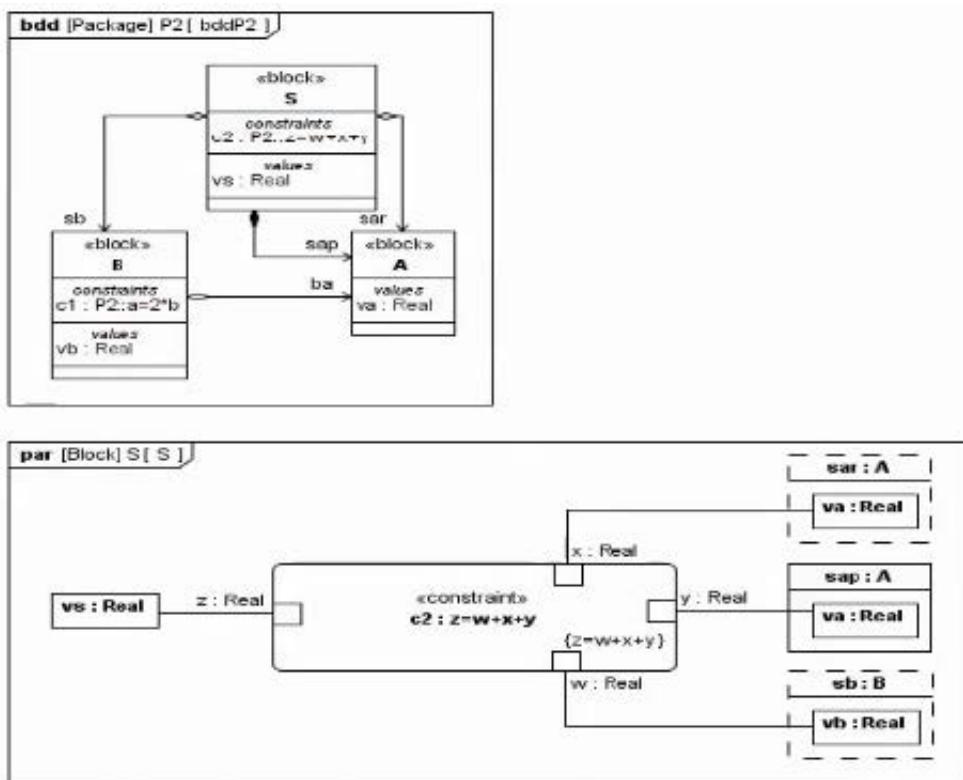
D. It specifies that the value of the corresponding property can be changed by its owner, but can only be read by other blocks

Correct Answer: A

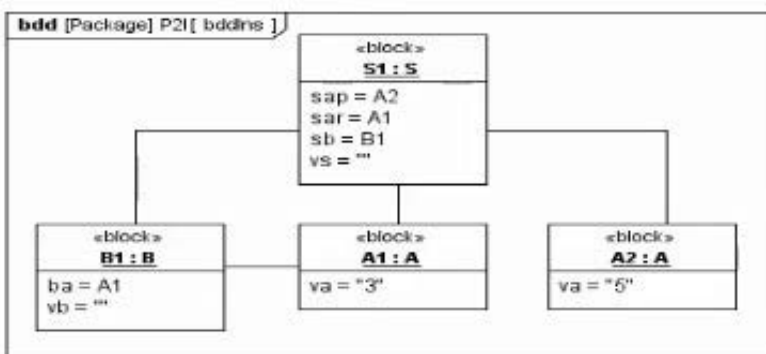
QUESTION 9

Choose the correct answer.

Given the following block structure model:



What is the value of S1.vs when the parametric models are executed for the following instance?



A. 11

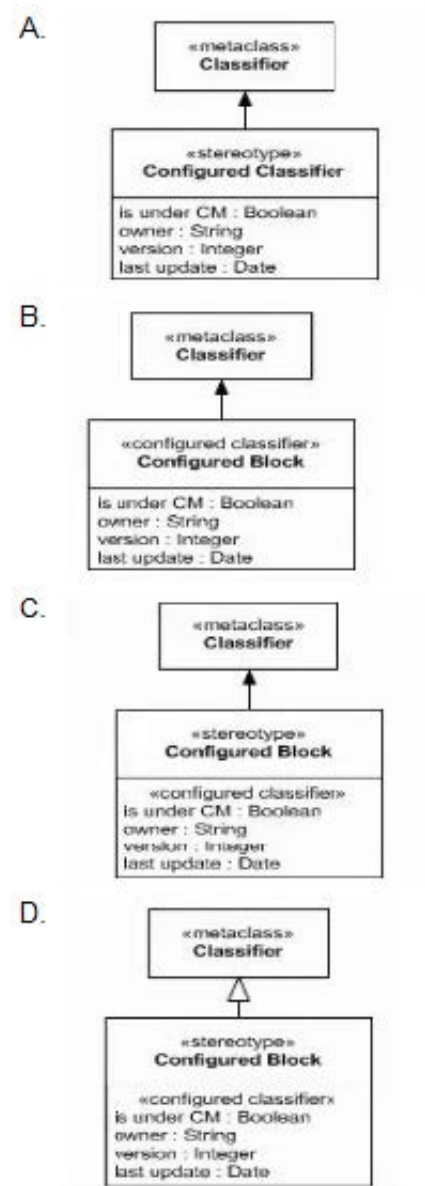
- B. 14
- C. 13
- D. There is no value - the instance model is invalid

Correct Answer: B

QUESTION 10

Choose the correct answer

Which diagram fragment validly depicts adding properties to a stereotype?



A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 11

Choose the correct answer.

Which SysML construct specifies a probability distribution to the values of a property such as a basic interval distribution between min and max?

A. a range property

B. an interval property

C. a probability property

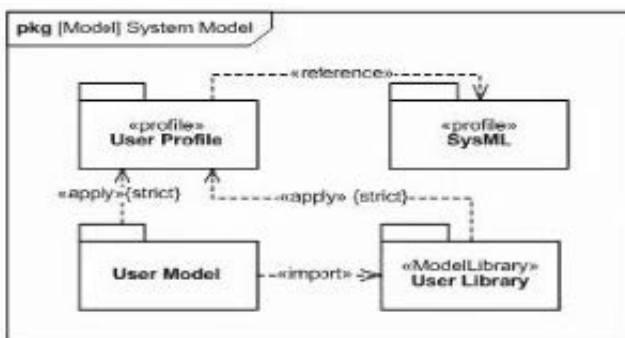
D. a distributed property

Correct Answer: A

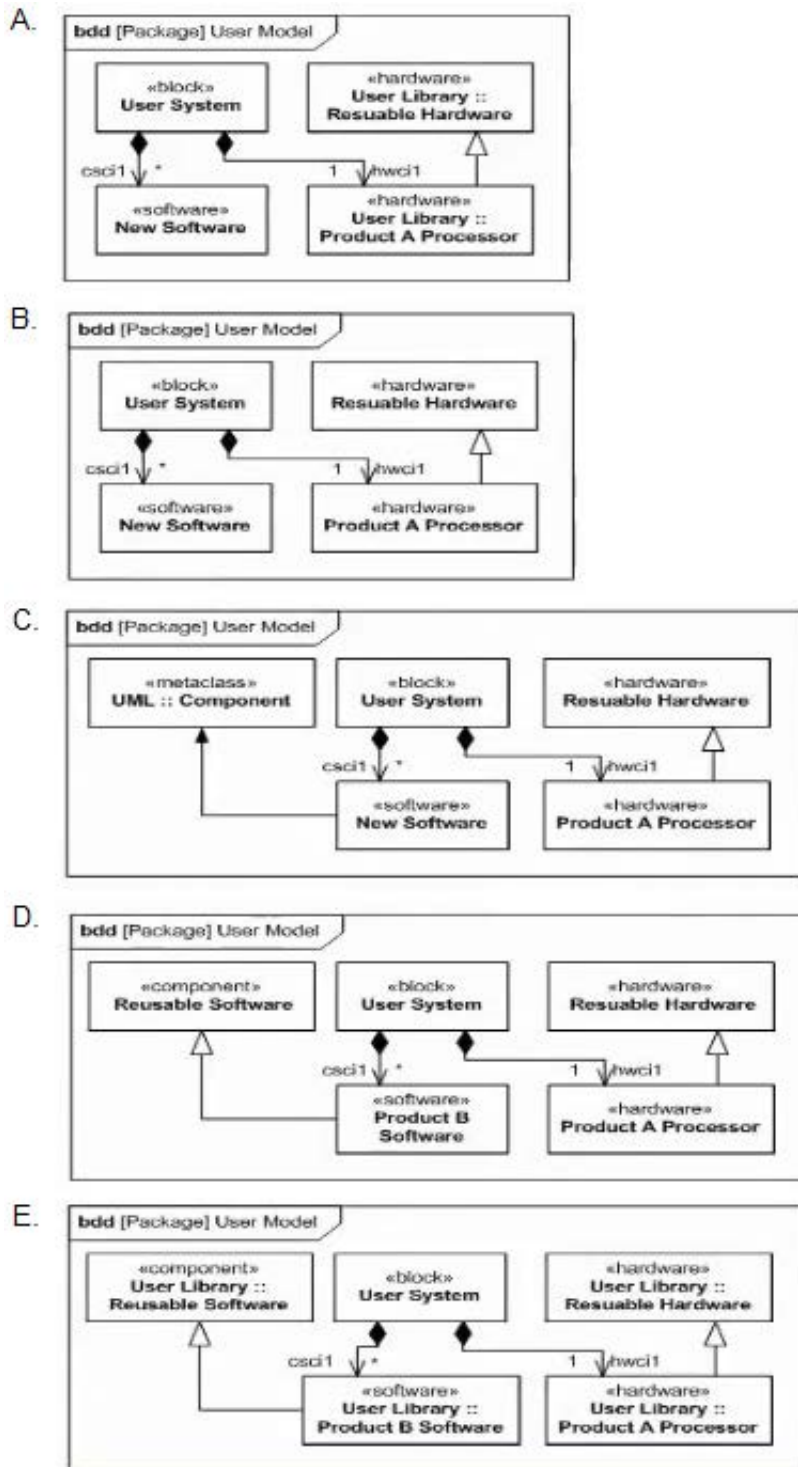
QUESTION 12

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 13

Choose the correct answer.

Given the following diagram fragment:



What does the multiplicity at the actor end mean?

- A. At most two Initiator actor instances can perform the use case
- B. Two Initiator actor instances are required to trigger the use case
- C. Two Initiator actor instances are required to participate in the use case.
- D. Multiplicities carry no meaning on use case diagrams

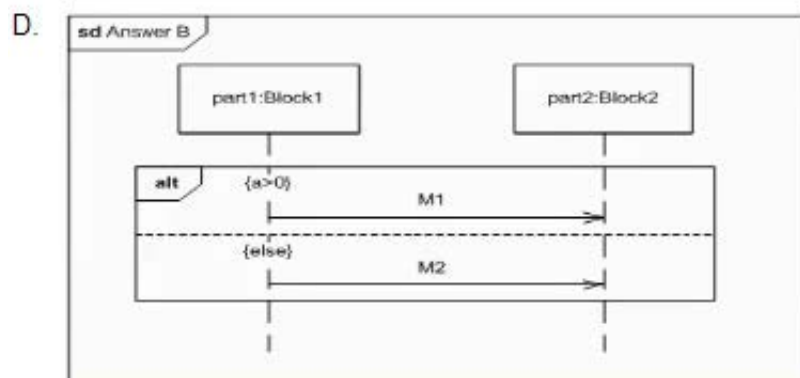
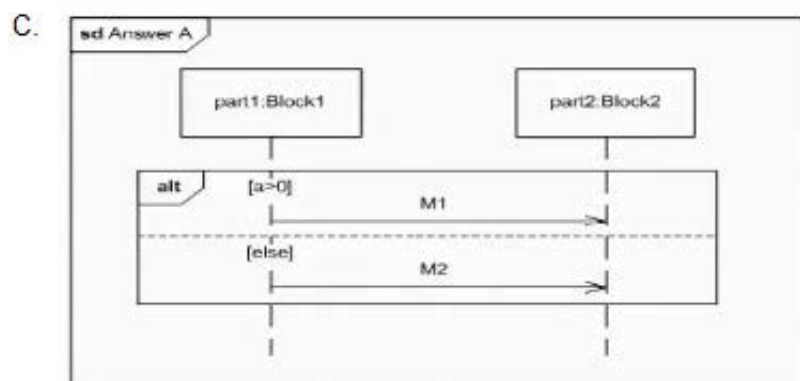
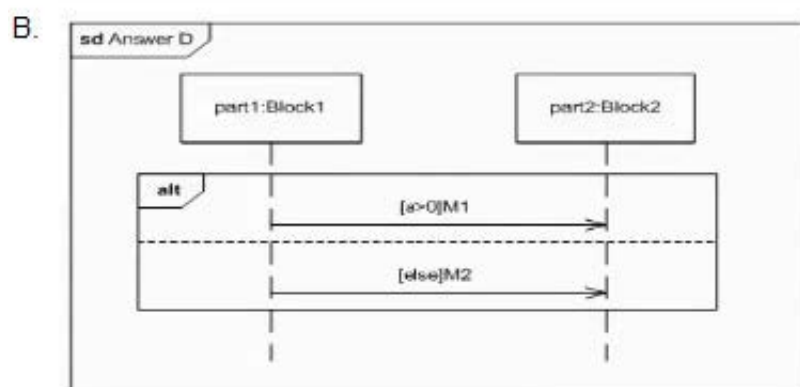
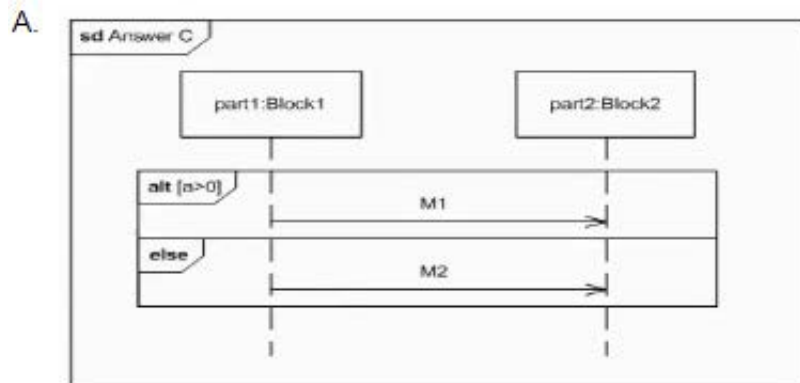
Correct Answer: C

QUESTION 14

Choose the correct answer.

Block 1 has a value property 'a' part 1. typed by Block1 sends the message M1 if a?; otherwise it sends message M2.

Which diagram depicts this scenario?



A. Option A

B. Option B

C. Option C

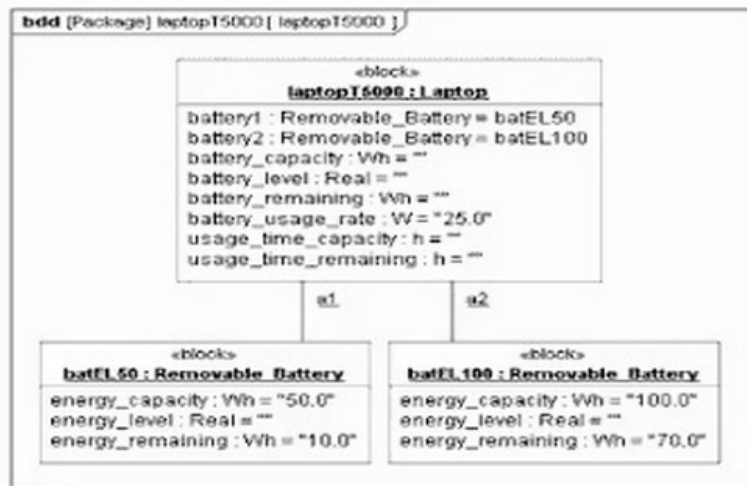
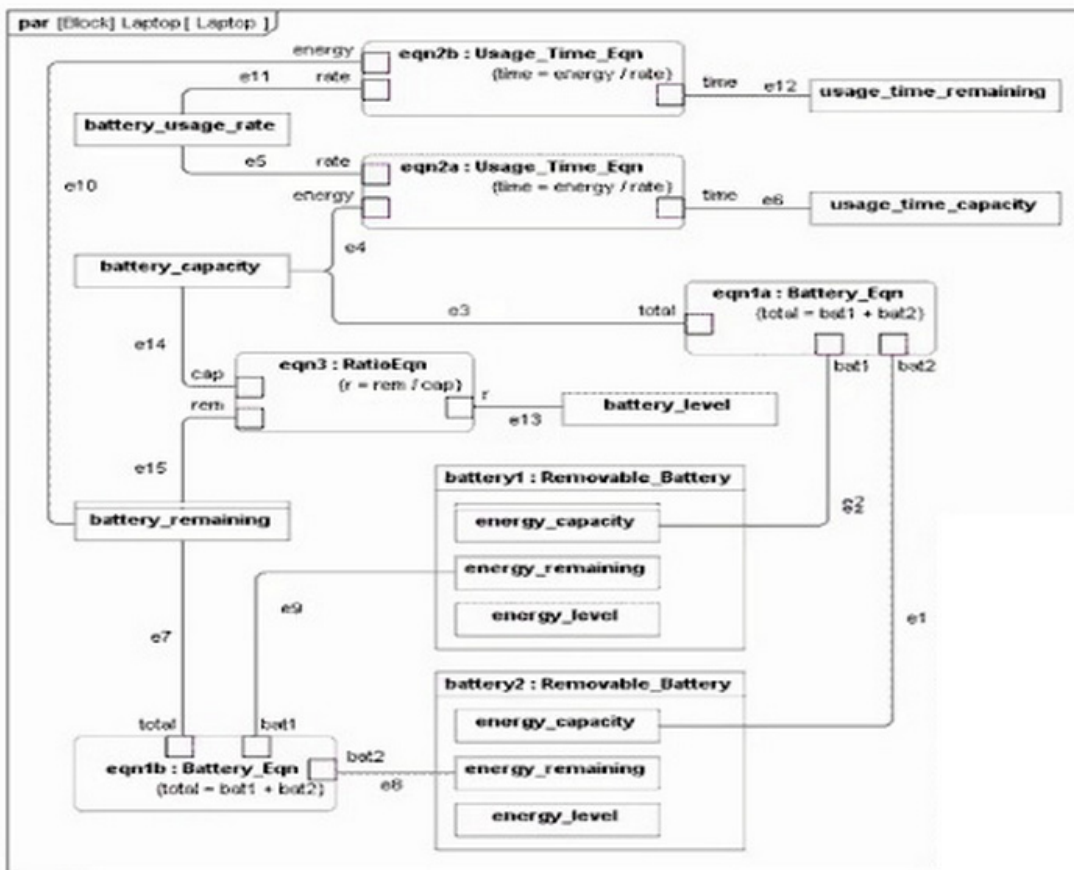
D. Option D

Correct Answer: A

QUESTION 15

Choose the correct answer.

The essentials of a laptop battery capacity model are shown in the following diagrams (where the value types W, h and Wh stand for watt, hour, and watt-hour respectively). Assume that the instance values shown are inputs, and that nothing relevant has been omitted.



Here are two model change aspects and associated options the modeler is considering:

Aspect 1 – Changes to model definition.

O1.1: Use the current model definition as-is.

O1.2: Change the current model definition to make battery1.energy_capacity an output by replacing existing constraint expressions: put {energy = rate * time} in eqn2a and {bat1 = total – bat2} in eqn1a.

O1.3: Create a new model definition (as some consultant has said changing an existing model in this way is not feasible with SysML).

Aspect 2 – Changes to instances.

O2.1: Use the current instances as-is.

O2.2: Change the current instances by making usage_time_capacity = 8 h as an input value in laptopT5000, making batEL50 energy_capacity an output (clearing its current value), and then solving the model.

O2.3: Create new instances with appropriate input values, and then solve the model (as the consultant said reusing existing instances in this way is not feasible with SysML).

The designer needs to determine what the energy_capacity of battery 1 should be to enable a laptop usage_time_capacity time of 8 hours. Which combination of the options listed in the text box in the figure will achieve this Intent with minimal changes (including minimal new aspects)?

- A. O1.1 and O2 1
- B. O1.1 and O2 2
- C. O1 1 and O2 3
- D. O1.2 and O2.1
- E. O1 7 and O2.2
- F. O1.2 and O2.3
- G. O1 3 and O2 3

Correct Answer: C

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