



# OMG-OCSMP-MBI300<sup>Q&As</sup>

OMG-Certified Systems Modeling Professional - Model Builder –  
Intermediate





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### QUESTION 1

Choose the correct answer.

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

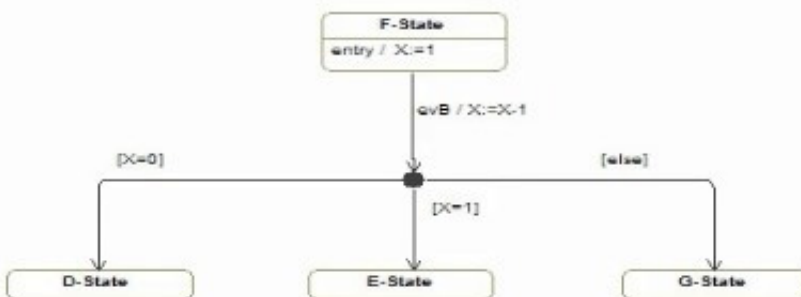
- A. An objective function is usually a function of only one MOE.
- B. An objective function is usually a function of several different MOEs
- C. An MOE is usually composed of only one objective function.
- D. An MOF is usually composed of several different objective functions

Correct Answer: A

### QUESTION 2

Choose the correct answer.

Given the following state machine fragment.



if it starts in F-State and then the event evB is received, what is the subsequent state?

- A. D-State
- B. E-State
- C. F-State
- D. G-State
- E. None: the diagram is ill-formed

Correct Answer: B

### QUESTION 3

Choose the correct answer



Which statement is true when modeling generalization?

- 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.

Correct Answer: D

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#### QUESTION 4

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?

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

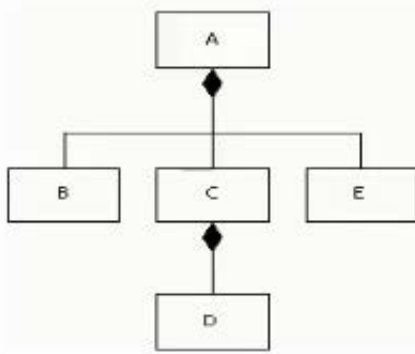
Correct Answer: B

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#### QUESTION 5

Choose the correct answer.

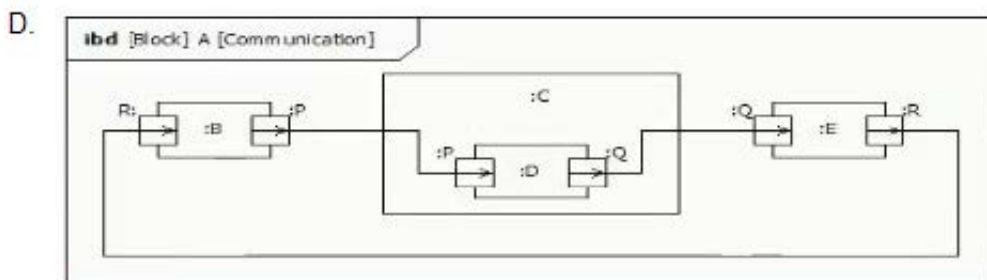
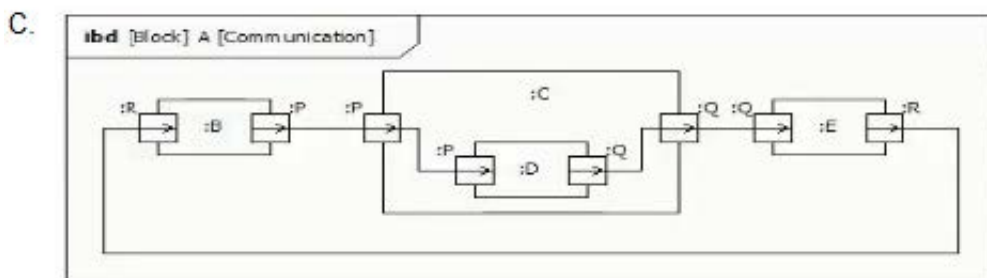
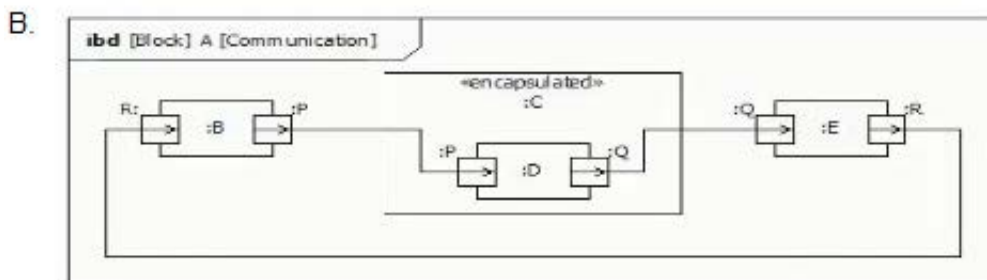
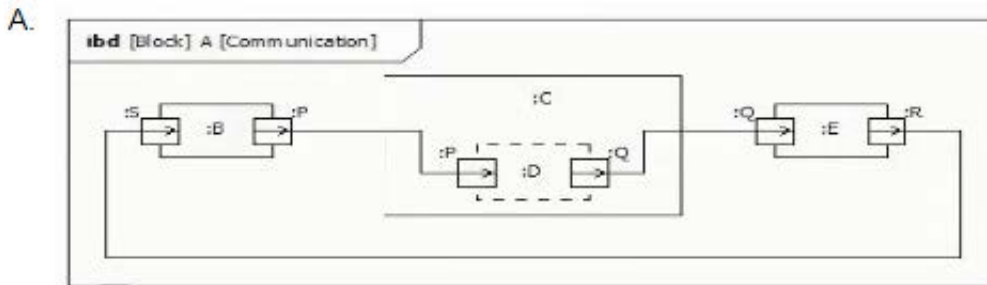
Given the following bdd fragment and table showing messages sent between blocks:



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 Ibd 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

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