OMG-OCSMP-MBI300 Q&As

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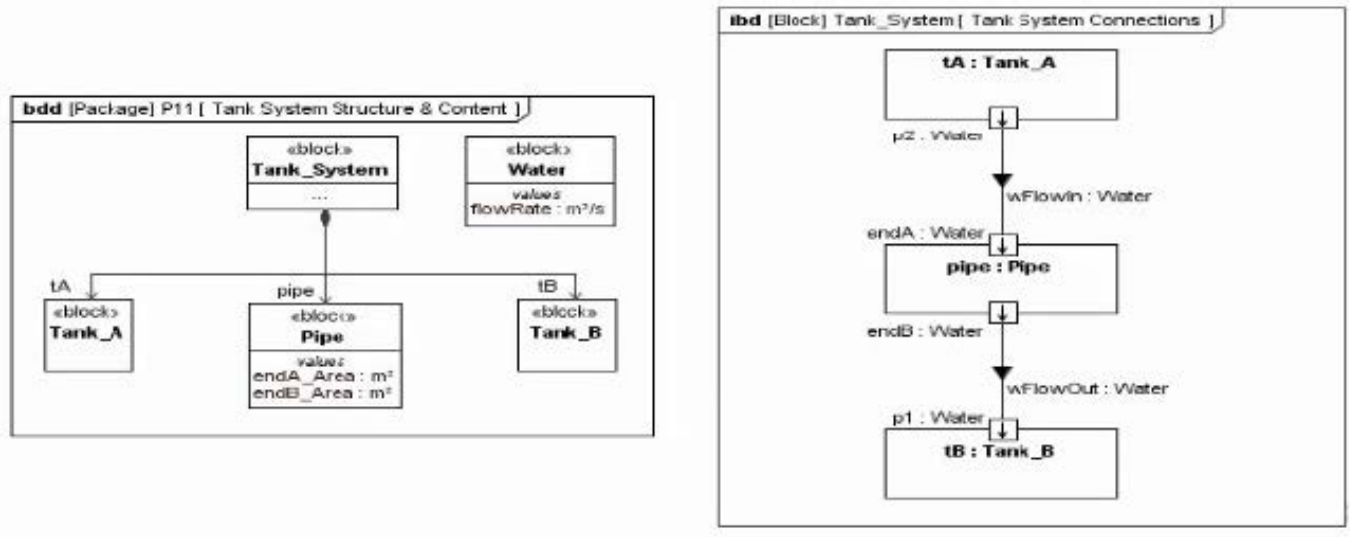
QUESTION 1

Choose the correct answer.

A system engineer has created the following model of a tank system composed of two tanks and a pipe connecting them:



The system engineer wants to mathematically relate the flow of water through the pipe using the following mass conservation equation: Tank_System wFlowin flowRate * Tank_System pipe endA_Area = Tank_System wFlowOut flowRate * Tank_System pipe endB_Area How would the system engineer model this in SysML?

A. Create a block to represent the mass conservation equation, use it in Tank_System. and relate its properties to the properties of wFlowin. wFlowOut. and pipe

B. Create a constraint block to represent the mass conservation equation, use it in Tank_System. and relate its parameters to the properties of wFiowin. wFlowOut. and pipe

C. Create a constraint block to represent each of wFlowin wFlowOut and the mass conservation equation; use these constraint blocks In Tank_System. and relate their parameters to the properties of pipe.

D. Create two flow properties for Tank_System (equivalent to wFlowin and wFlowOut); create a constraint block for the mass conservation equation and use it in Tank_System.and then relate the flow properties to the new constraint property.

E. It is not possible to model this because wFlowin and wFlowOut are item properties and not flow properties

Correct Answer: C

QUESTION 2

Choose the correct answer

Where may constraint blocks be defined?

A. on any diagram

B. only on parametric diagrams

C. only on block definition diagrams

D. only on block definition diagrams or package diagrams

E. only on block definition diagrams or parametric diagrams

F. only on block definition diagrams or internal block diagrams

Correct Answer: D

QUESTION 3

Choose the correct answer

What is the statement An activity specifies the behavior of a use case?

A. a constraint defined in SysML

B. a guideline from a methodology

C. a constraint of the activity element

D. a constraint of the use case element

Correct Answer: A

QUESTION 4

Choose the correct answer.

What are streaming parameters?

A. parameters that are mapped to flow ports

B. parameters in which tokens are never buffered

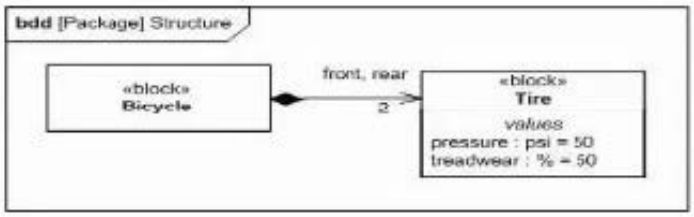
C. parameters through which a continuous stream of tokens pass

D. parameters through which an activity can accept or produce tokens throughout its execution

Correct Answer: B

QUESTION 5

Choose the correct answer. Given the following diagram:



Which statement is true about the values of pressure for the bicycle parts front : Tire and rear : Tire?

A. The pressure of each part is constrained to be 50 psi.

B. if not redefined individually by each part, the value of pressure must be 50 psi.

C. The values may be redefined, but they must be the same for both front and rear.

D. To be other than 50 psi. instance specifications must be developed for front and rear tires.

Correct Answer: C