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**QUESTION 1**

Choose the correct answer

What is best practice to model a software application in a SysML model for a system?

- A. block stereotyped with ?oftware?represents the software application and its interfaces
- B. A class stereotyped with ?oftware?represents the software application and its interfaces
- C. A component stereotyped with ?oftware?represents the software application and its interfaces.
- D. Software is typically not modeled in a system SysML model

Correct Answer: A

The best practice to model a software application in a SysML model for a system is to use a block stereotyped with ?oftware?to represent the software application and its interfaces. A block is a modular unit that encapsulates its structure and behavior and can be connected to other blocks via ports and connectors. A stereotype is an extension of an existing metaclass that adds additional information or semantics to a model element. By using a block stereotypedwith ?oftware? the software application can be modeled as a system component with its own properties, operations, ports, flows, etc., and can be allocated to hardware blocks or other software blocks.

QUESTION 2

Choose the correct answer.

What is a best practice to link actions of an activity in a SysML model to a software application described in a UML model?

- A. The actions are moved into the namespace of the UML model
- B. The actions are copied into the UML model using the copy relationship.
- C. The actions are assigned to an activity partition that represents the software application
- D. The actions in the SysML model are called by appropriate CallBehaviorActions in the UML model

Correct Answer: D

The best practice to link actions of an activity in a SysML model to a software application described in a UML model is to use CallBehaviorActions in the UML model that call the actions in the SysML model. A CallBehaviorAction is an action that invokes a behavior and provides inputs and outputs. By using CallBehaviorActions, the software application can reuse the behavior defined in the SysML model without having to duplicate or copy it. This also ensures consistency and traceability between the models.

QUESTION 3

Choose the correct answer

What are views and viewpoints used to show?



- A. the system under development by the stakeholders
- B. the modeling responsibilities of different stakeholders
- C. the aspects of a model that relate to different stakeholders
- D. the aspects of a model important to users as stakeholders

Correct Answer: C

Views and viewpoints are used to show the aspects of a model that relate to different stakeholders. A view is a representation of a subset of a model that addresses a set of stakeholder concerns. A viewpoint is a specification of a perspective on a model that defines how a view should be constructed and used. By using views and viewpoints, different aspects of a model can be presented in a way that is relevant and understandable for different stakeholders.

QUESTION 4

Choose the correct answer.

A modeling team supervisor wishes to force modelers to use particular metamodeling features

What must the supervisor do?

- A. place the profile in the current namespace with the model
- B. apply the profile to the model
- C. Apply the profile to the model with the {strict} keyword applied
- D. Apply the profile to the model with the {required} keyword applied
- E. ?mport?the profile to the model with the {strict} keyword applied
- F. ?mport?the profile to the model with the {required} keyword applied

Correct Answer: C

To force modelers to use particular metamodeling features, the supervisor must Apply the profile to the model with the {strict} keyword applied. This keyword indicates that only elements with stereotypes defined in the profile can be created as instances of the extended metaclasses. For example, if a profile defines a stereotype as an extension of Class, then only classes with this stereotype can be created as instances of Class when the profile is applied with the {strict} keyword. References: <https://www.omg.org/ocsmp/ocsmp-adv-exam.htm>
https://www.ibm.com/docs/SSB2MU_8.2.0/com.ibm.rhp.sysml.doc/topics/rhp_c_dm_sysml_profile_features.html

QUESTION 5

Choose the correct answer

Which SysML diagram type is a modification of the UML Class diagram?

- A. Parametric Diagram
- B. Internal Block Diagram



C. Package Diagram

D. Block Definition Diagram

Correct Answer: D

The SysML diagram type that is a modification of the UML Class diagram is the Block Definition Diagram (BDD). A BDD shows the definition of blocks in terms of their features, such as properties, operations, ports, etc. It is similar to a UML Class diagram, but it adds some features specific to SysML, such as value types, units, flow properties, etc. A block is an extension of the UML Class metaclass that can be used to model any system component with structure and behavior.

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