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QUESTION 1

Choose the correct answer

An engineer wants to place formal pre-conditions and post-conditions on an activity diagram.

Which language is suitable and most compatible with SysML?

- A. BPMN
- B. English
- C. OCL
- D. OWL
- E. VSL
- F. XMI
- G. XML

Correct Answer: C

OCL is the most suitable and compatible language for placing formal pre-conditions and post-conditions on an activity diagram. OCL is part of the UML standard and can be integrated with SysML without any conflicts or inconsistencies. OCL can express complex logical expressions that can check the state of the system before and after an activity is executed. BPMN is a business process modeling language that is not compatible with SysML. English is a natural language that may not be precise or unambiguous enough for formal specifications. OWL is a web ontology language that is not designed for modeling activities or constraints. VSL is a value specification language that can only express simple values and expressions. XMI and XML are markup languages that are used for exchanging models between tools, not for specifying constraints on models. References: OMG-Certified Systems Modeling Professional - Model Builder ?Advanced (OCUP2-ADV) Examination Guide Version 1.0, Section 4.3

QUESTION 2

Choose the correct answer

A large company uses SysML to design energy systems, and plans to use a specialized proprietary analysis tool (X) for evaluating and comparing the cost, performance, and reliability of energy system alternatives. The engineers at the

company want to automatically create analysis models in X from design models in SysML.

To achieve this, they will use the following process:

(1)

Specify the appropriate module in X to be used for each block in the SysML design model.

(2)

Write scripts that use these mappings to automatically create analysis models in X. Which approach is most flexible when enabling this automation?



- A.
define a package that contains a note for each type of module in X. and anchor notes to the blocks in the design model
- B.
define a profile that contains a stereotype for each type of module m X. and assign the stereotype to the blocks in lite design model
- C.
define a profile that contains a tag for each type of X in the tool, and assign the stereotype to the blocks in the design model
- D.
define a profile that contains a stereotype with a tag that can store the name of the module in X. apply the stereotype to the blocks in the design model, and populate the tag
- E.
define a package that contains a block for each type of module m X (e g module_1 block) and create a dependency relationship from the module block to the blocks in the design model

Correct Answer: D

A profile is a mechanism for customizing SysML for a specific domain or purpose. A stereotype is a way of extending or modifying the semantics of a SysML element. A tag is an attribute of a stereotype that can store additional information. By defining a profile that contains a stereotype with a tag that can store the name of the module in X, the engineers can easily map the blocks in the design model to the corresponding modules in X, and use scripts to automate the creation of analysis models. This approach is more flexible than using notes, dependencies, or predefined tags, because it allows for more control and consistency over the mapping proces

QUESTION 3

Choose the correct answer.

What is a common rationale for defining and applying a profile to a SysML model?

- A. The profile makes the model suitable for a modeling tool
- B. The profile extends the model with reusable elements, e.g. units.
- C. The profile enables separate views of the model for the different stakeholder concerns.
- D. The profile adds appropriate metainformation to the model to allow automated system analysis

Correct Answer: B

A common rationale for defining and applying a profile to a SysML model is that the profile extends the model with reusable elements, such as units, quantities, value types, etc. These elements can be defined in a model library and imported into other models by applying the profile. This way, the profile enables consistent and standardized modeling of properties and parameters of blocks and constraints. References: <https://www.omg.org/ocsmp/ocsmp-adv-exam.htm>
<https://github.com/Systems-Modeling/SysML-v2-Release>



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

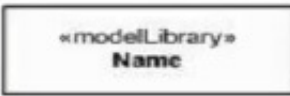
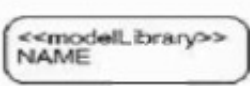
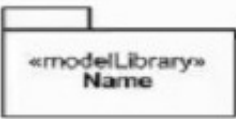
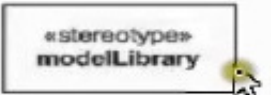
Correct Answer: C

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 element would be used to depict a model library on a diagram?

- A. 
- B. 
- C. 
- D. 



A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

The element that would be used to depict a model library on a diagram is a package with the stereotype applied to it. This stereotype indicates that the package contains reusable model elements that can be imported into other models. Option C shows a package with this stereotype

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