OMG-OCSMP-MBA400 Practice Questions

Shared by Aguirre on 26-10-2026

For More Free Questions and Preparation Resources

Check the Links on Last Page

Question 1

Question Type: MultipleChoice

Choose the correct answer

Which aspect of a MBSE-based engineering project falls outside of the scope of AP233?

Options:

A- diagrams
B- slate machines
C- lifecycle stages
D- issue management

Answer:

A

Explanation:

This aspect of a MBSE-based engineering project falls outside of the scope of AP233 because AP233 does not cover diagrams. AP233 (Application Protocol 233) is a standard that defines an information model for systems engineering. It specifies the concepts and relationships for representing systems engineering data, such as requirements, functions, properties, etc. AP233 does not define any notation or presentation for diagrams, such as SysML diagrams. AP233 only defines the serialization and deserialization of systems engineering data using XMI (XML Metadata Interchange) format. Therefore, AP233 does not address how to exchange diagrams between tools or how to visualize diagrams in different tools. Reference:
https://www.omg.org/ocsmp/ocsmp-adv-exam.htm
https://www.omg.org/spec/AP233/About-AP233/

Question 2

Question Type: MultipleChoice

Choose the correct answer

What does a model library add to a SysML model?

Options:

A- stereotypes
B- common concepts
C- domain-specific modeling concepts
D- methodology-specific modeling concepts

Answer:

B

Explanation:

A model library is a package that contains reusable model elements that can be imported into other models. A model library can add common concepts to a SysML model, such as units, quantities, value types, etc. These concepts can be used to define properties and parameters of blocks and constraints in a consistent and standardized way. Reference: https://www.omg.org/ocsmp/ocsmp-adv-exam.htm https://www.omg.org/spec/SysML/1.6/PDF

Question 3

Question Type: MultipleChoice

Choose the correct answer

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

Options:

A- Parametric Diagram
B- Internal Block Diagram
C- Package Diagram
D- Block Definition Diagram

Answer:

D

Explanation:

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. Reference: https://www.omg.org/ocsmp/ocsmp-adv-exam.htm https://sysml.org/tutorials/sysml-diagram-tutorial/

Question 4

Question Type: MultipleChoice

Choose the correct answer

What are two cross-cutting mechanisms within SysML that can be used to establish traceability between the systems model and a UML software model?

Options:

A- packages and parametrics
B- profiles and stereolypes
C- allocations and stereotypes
D- requirement relationships and allocations

Answer:

C

Explanation:

Two cross-cutting mechanisms within SysML that can be used to establish traceability between the systems model and a UML software model are allocations and stereotypes. Allocations are dependencies that indicate a relationship between elements in different models or domains. Stereotypes are extensions of existing metaclasses that add additional information or semantics to model elements. By using allocations and stereotypes, different aspects of the systems model and the software model can be linked and traced. Reference: https://www.omg.org/ocsmp/ocsmp-adv-exam.htm https://www.omg.org/spec/SysML/1.6/PDF

Question 5

Question Type: MultipleChoice

Choose the correct answer

An engineer using SysML modeling tool B imports an XMI die produced by SysML modeling tool A (containing a complete model) and makes changes to the model

What is the best way XMI provides to introduce the changes back to the original model in the original tool (Tool A)?

Options:

A- Export only the modified and new elements to XMI and import it to Tool A.
B- Produce a special XMI file expressing the differences from the original XMI and import it into Tool A
C- Partition the models and exchange parts of the models alter identifying the parts that were changed.
D- Import the entire model back to Tool A as a separate copy and use the tool's diff/merge utility to merge in the changes

Answer:

B

Explanation:

XMI is a standard format for exchanging metadata information via XML, such as UML models. XMI supports a mechanism for producing a special XMI file that contains only the differences between two versions of a model, called a difference model. This file can be imported into another tool to apply the changes to the original model.This approach is more efficient and reliable than exporting and importing the entire model or parts of it

Question 6

Question Type: MultipleChoice

Choose the correct answer

Which SysML diagram type is a modification of the UML Composite Structure diagram?

Options:

A- Parametric Diagram
B- Internal Block Diagram
C- Package Diagram
D- Block Definition Diagram

Answer:

B

Explanation:

The SysML diagram type that is a modification of the UML Composite Structure diagram is the Internal Block Diagram (IBD). An IBD shows the internal structure of a block in terms of its parts, ports, connectors, and flows. It is similar to a UML Composite Structure diagram, but it adds some features specific to SysML, such as flow ports, flow specifications, item flows, nested connectors, etc. Reference: https://www.omg.org/ocsmp/ocsmp-adv-exam.htm https://sysml.org/tutorials/sysml-diagram-tutorial/

Question 7

Question Type: MultipleChoice

Choose the correct answer.

When defining a stereotype, a modeler may wish to put some constraints on the stereotype, its properties, or its relationships. What is the most suitable language to accomplish this?

Options:

A- DSL
B- OCL
C- VSL
D- XMI
E- XML

Answer:

B

Explanation:

OCL stands for Object Constraint Language, which is a standard language for expressing constraints on UML and SysML models. Constraints are used to specify additional rules or conditions that are not directly captured by the modeling elements or their relationships. OCL can be used to define constraints on stereotypes, their properties, or their relationships in a profile. Reference: https://www.omg.org/ocsmp/ocsmp-adv-exam.htm https://www.omg.org/spec/OCL/About-OCL/

Question 8

Question Type: MultipleChoice

Choose the correct answer

The main diagram type in Modelica corresponds most closely to which SysML diagram type?

Options:

A- act
B- bdd
C- ibd
D- par

Answer:

C

Explanation:

The main diagram type in Modelica corresponds most closely to the ibd (internal block diagram) in SysML. An ibd shows the internal structure of a block in terms of its parts, ports, connectors, and flows. It is similar to a Modelica diagram, which shows the components of a model in terms of their connectors and equations. Both diagram types can be used to represent physical systems composed of interconnected elements with defined behaviors and properties. Reference: https://www.omg.org/ocsmp/ocsmp-adv-exam.htm https://modelica.org/documents/ModelicaSpec34.pdf

To Get Premium Files for OMG-OCSMP-MBA400 Visit

https://www.p2pexams.com/products/omg-ocsmp-mba400

For More Free Questions Visit

https://www.p2pexams.com/omg/pdf/omg-ocsmp-mba400

