OMG-OCSMP-MBA400^{Q&As}

OMG-Certified Systems Modeling Professional - Model Builder – Advanced

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QUESTION 1

Choose the correct answer

Which data exchange mechanism uses an application programming interface (API) to access data m one tool and make it available in another tool?

A. manual exchange

B. file-based exchange

C. interaction-based exchange

D. repository-based exchange

Correct Answer: C

Interaction-based exchange is a data exchange mechanism that uses an application programming interface (API) to access data in one tool and make it available in another tool. The API allows for direct communication and synchronization between the tools without requiring intermediate files or repositories. This approach can provide better performance and consistency than file-based or repository-based exchange.

QUESTION 2

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.

QUESTION 3

Choose the coned answer

What is the best way to ensure that a shared model has consistently-represented elements and diagrams?

A. Implementation of standard libraries

B. modeling conventions and standards

C. packages that map one-for-one to components

D. domain stereotypes maintained in a configuration control system

Correct Answer: B

The best way to ensure that a shared model has consistently-represented elements and diagrams is to use modeling conventions and standards. Modeling conventions and standards are rules and guidelines that define how the model elements and diagrams should be named, defined, structured, formatted and documented. Modeling conventions and standards can help improve the clarity, consistency and quality of the model and facilitate the communication and collaboration among the modelers and stakeholders. Implementation of standard libraries is a good way to ensure that a shared model has reusable and interoperable elements and diagrams, but it may not ensure their consistent representation. Packages that map one-for-one to components is a good way to ensure that a shared model has modular and traceableelements and diagrams, but it may not ensure their consistent representation. Domain stereotypes maintained in a configuration control system is a good way to ensure that a shared model has customized and controlled elements and diagrams, but it may not ensure their consistent representation. References: OMG-Certified Systems Modeling Professional - Model Builder ?Advanced (OCUP2-ADV) Examination Guide Version 1.0, Section 4.1

QUESTION 4

Choose the correct answer

What is the purpose of the Domain Metamodel in UPDM?

A. It defines the implementation metamodel.

B. It defines the stakeholder requirements for the metamodel.

C. It defines the mapping of UML to SysML and SOAML concepts

D. It defines the melamodel concepts and relationships without any implementation

Correct Answer: D

The purpose of the Domain Metamodel in UPDM is to define the metamodel concepts and relationships without any implementation. The Domain Metamodel captures the core concepts of DoDAF and MODAF in terms of entities, attributes, associations, and constraints. It does not specify how these concepts are implemented in UML, SysML, or any other language or tool. The Domain Metamodel serves as a requirements model for UPDM and provides traceability links between the domain concepts and the profile elements.

QUESTION 5

Choose the correct answer

What can be included in a model library?

A. any model element

B. any model element that Is contained In a profile

C. any model element that can be contained in a package

D. only those model elements that are re-used in the model

Correct Answer: C

Any model element that can be contained in a package can be included in a model library. A model library is a package with the stereotype applied to it. It contains reusable model elements that can be imported into other models by using an ?mport?relationship. Any kind of model element that can be owned by or nested within a package can be part of a model library, such as blocks, constraints, values, units, etc.

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