OMG-OCSMP-MBA400 Q&As

OMG-Certified Systems Modeling Professional - Model Builder – Advanced

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QUESTION 1

Choose the correct answer Where may tagged values be defined?

A. only as attributes of classifiers

B. only as attributes of stereotypes

C. on any model element in a profile

D. on any model element

Correct Answer: B

Tagged values can be defined only as attributes of stereotypes. A tagged value is an extension of a model element with additional information that is not part of its standard properties. A tagged value is defined by an attribute of a stereotype that is applied to the model element. The attribute specifies the name and type of the tagged value.

QUESTION 2

Choose the correct answer.

How does the quality of models relate to the quality of the modeling language used to express them?

A. Model quality benefits from the degree of syntactical and semantic formalism supported by the modeling language

B. The modeling language must be applicable to a wide range of domains of practice in order to produce high-quality models.

C. The level of comprehensibility of the modeling language\\'s abstract syntax directly corresponds to the quality of the models

D. The quality of the modeling language does not influence tin.- quality of the models because the quality of the models depends on the skill and knowledge of the modeler

Correct Answer: A

The quality of models relates to the quality of the modeling language used to express them in that model quality benefits from the degree of syntactical and semantic formalism supported by the modeling language. Syntactical and semantic formalism refers to the rules and meanings that define how the modeling language elements and relationships can be used and interpreted. A high degree of syntactical and semantic formalism can help improve the clarity, consistency and correctness of the models and avoid ambiguity, inconsistency and error. A high degree of syntactical and semantic formalism can also enable automated analysis, verification and validation of the models. The modeling language does not have to be applicable to a wide range of domains of practice in order to produce high-quality models, as some modeling languages may be more suitable or specialized for certain domains than others. The level of comprehensibility of the modeling language\\'s abstract syntax does not directly correspond to the quality of the models, as abstract syntax is only one aspect of the modeling language that defines its structure and notation. The quality of the modeling language does influence the quality of the models because the quality of the models depends not only on the skill and knowledge of the modeler but also on the expressiveness and precision of the modeling language. References: OMG-Certified Systems Modeling Professional - Model Builder ?Advanced (OCUP2-ADV) Examination Guide Version 1.0, Section 4.1

QUESTION 3

Choose the correct answer

How is the concept of coupling used to assess model quality?

A. High coupling leads to good model quality provided all blocks in a structural model exhibit the same average degree of coupling

B. High coupling leads to poof model quality because it decreases reuse potential and prevents independent modification of system elements

C. Low coupling leads to poor model quality because all parts of a system must be properly coupled in order to measure the completeness of the model

D. Coupling has no bearing on model quality because no metrics exist for measuring the level of coupling of SysML models

Correct Answer: B

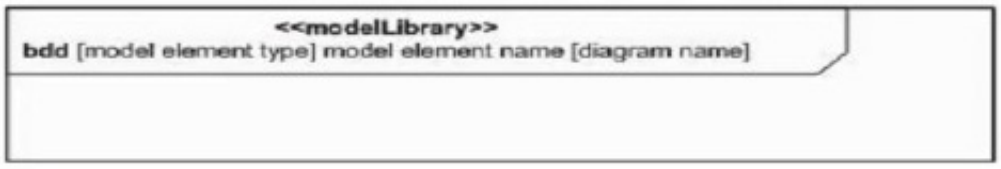
Coupling is a measure of how much a system element depends on other system elements. High coupling means that a change in one element affects many other elements, which makes the system harder to understand, maintain and reuse. Low coupling means that the system elements are more independent and modular, which improves the model quality. References: OMG-Certified Systems Modeling Professional - Model Builder ?Advanced (OCUP2-ADV) Examination Guide Version 1.0, Section 4.1.2.2

QUESTION 4

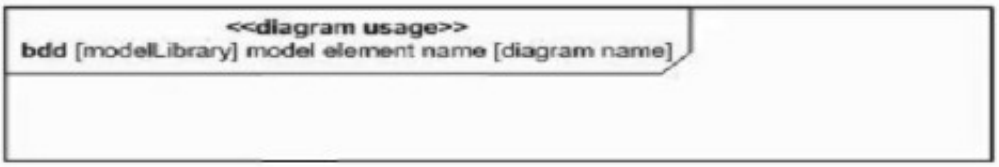
Choose the correct answer.

The frame of which diagram corresponds to a model library?

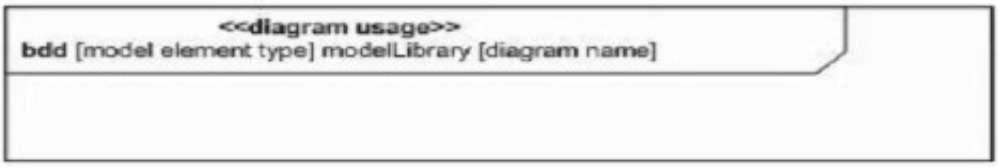
A.



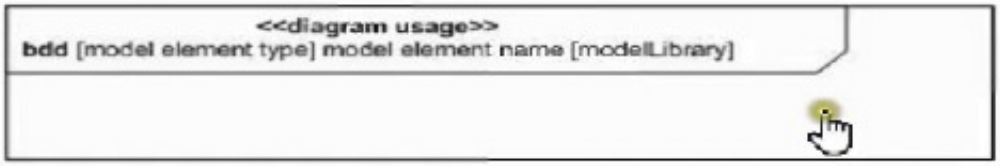
B.



C.



D.



A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

The frame of the diagram that corresponds to a model library is the one that has the label "modelLibrary" in its upper left corner. This label indicates that the diagram is contained within a package with the stereotype applied to it. Option D shows a diagram with this label.

QUESTION 5

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