OMG-OCSMP-MBA400 Q&As

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QUESTION 1

Choose the correct answer

A bank manager and his core team want to consolidate internal processes, detect conflicts among processes, and improve customer experience. The core team includes the lead person from each of the process areas (such as transactions,

customer management, and marketing). The manager wants to architect the overall system processes based on the following.

(1)

Relationships among the internal processes should be clearly identifiable and managed.

(2)

The core team members should be able to improve their processes simultaneously.

(3)

The architecture should aid visualization and analytics

Which model organization approach would be most efficient?

A. create a SysML model for each of the core processes and for each relationship between processes

B. create a SysML model that contains only one diagram showing all the core processes and their relationships

C. create a SysML model for each of the core processes, and manage relationships between processes in a spreadsheet

D. create a SysML model that contains a package for each of the core processes, and a package for the overall consolidated process and related relationships

E. create a SysML model that contains a package for each of the core processes, a package for each of the relationships between processes, and a package for the overall consolidated process

Correct Answer: E

This model organization approach would be most efficient because it allows the bank manager and his core team to modularize and structure their system processes using SysML packages. A package is a grouping mechanism that can contain any kind of model element, such as diagrams, blocks, activities, etc. By creating a package for each of the core processes, the team members can work on their own processes independently and concurrently. By creating a package for each of the relationships between processes, the team can identify and manage the dependencies and interactions among the processes. By creating a package for the overall consolidated process, the team can have a holistic view of the system and perform visualization and analytics using SysML diagrams and parametrics.

QUESTION 2

Choose the correct answer

Which statement is true about a method?

A. A method Is generic and can be used out-of-the-box

B. A method is not necessary to build an effective SysML model.

C. A method must be adapted to company or project specific needs

D. A method must be adapted to the specific features of the modeling language

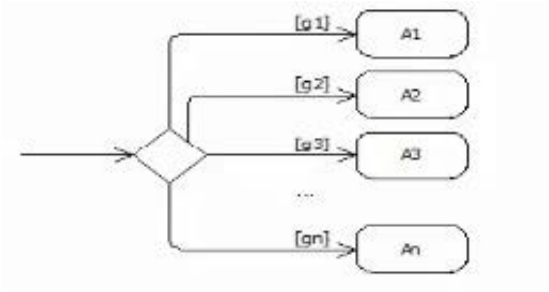
Correct Answer: C

A method is a technique or procedure for performing a specific task. A method is not generic and cannot be used out-of-the-box, because it depends on the context and purpose of the task. A method is not unnecessary to build an effective SysML model, because it provides guidance and structure for the modeling process. A method does not depend on the specific features of the modeling language, because it can be applied to different languages with appropriate adjustments. Therefore, a method must be adapted to company or project specific needs, because it should reflect the goals, requirements, constraints, and preferences of the stakeholders involved in the project

QUESTION 3

Choose the correct answer.

Given the following diagram fragment:



Which criterion indicates that a decision node construct such as this is well-formed?

A. No activity Ai will negate the corresponding guard [gi]

B. Taken together, the guards cover all possibilities and are mutually exclusive.

C. Each guard legal can be evaluated without changing the state of any item referenced by the corresponding activity or action Ai

D. The guards are understandable by stakeholders in the development effort.

Correct Answer: B

A decision node is a construct in SysML that represents a branching point in an activity diagram where alternative paths are chosen based on some conditions. The guards are expressions that specify the conditions for each outgoing edge from the decision node. A criterion that indicates that a decision node construct is well-formed is that the guards cover all possibilities and are mutually exclusive, meaning that for any input value, exactly one guard evaluates to true and all others evaluate to false. This ensures that there is no ambiguity or conflict in choosing the next path in the activity.

QUESTION 4

Choose the correct answer

What happens to the elements of a model when a profile is applied to the model?

A. The stereotypes defined in the profile are applied to the model\\'s metamodel elements

B. The stereotypes defined in the profile are available to be applied to any element in the model.

C. The stereotypes defined in the profile may be applied to elements sharing compatible metaclasses

D. The stereotypes defined in the profile ate automatically applied lo the elements sharing compatible metaclasses

Correct Answer: C

A profile is a mechanism for extending the UML or SysML metamodel with domain-specific concepts. A profile defines stereotypes, which are extensions of existing metaclasses. A metaclass is a modeling construct that defines the properties and behavior of a set of model elements. For example, the metaclass Class defines the properties and behavior of all classes in a model. When a profile is applied to a model, the stereotypes defined in the profile may beapplied to elements sharing compatible metaclasses. For example, if a profile defines a stereotype as an extension of the metaclass Class, then the stereotype may be applied to any class in the model. References: https://www.omg.org/ocsmp/ocsmp-adv-exam.htm https://www.omg.org/spec/UML/About-UML/https://www.omg.org/spec/SysML/About-SysML/

QUESTION 5

Choose the correct answer

The lead systems engineer on a project has identified a set of Key Performance Parameters (KPPs) that need to be evaluated both on a periodic basis during development, and during acceptance for everydesign change. Many of these KPPs are expressed In complex, interrelated differential equations The analysis team has identified appropriate numerical techniques for solving these equations and expressed them in a popular analysis tool.

The lead system modeler and methodologist must ensure that the architecture and design captured in the SysML system model are continuously and accurately reflected In the KPP calculations.

Which strategy is likely to be most successful in accomplishing this?

A. Task the analysis learn with recasting each of the KPP equations as constraint blocks and parametric models directly in SysML and linking the resulting parameters to value properties of current system model elements Keeping all information in the same model is the only way to guarantee the consistency the lead engineer has asked for

B. List the parameters used to evaluate the KPPs in a spreadsheet file. Use the SysML modeling tool\\'s inherent capability to link appropriate value properties to cells in this spreadsheet Task the analysis team with modifying their analysis routines to accept parameters as an input vector from this spreadsheet. Ensure that the spreadsheet is updated from the system model prior to each update of the KPP calculations

C. Work with the analysis team to partition the KPP evaluation model into manageable, reusable subroutines Develop constraint blocks within the SysML model to represent these subroutines, exposing their parameters. Use these new constraint blocks to build a parametric model that ties the KPP evaluation directly to system model element value properties. Leverage available bridging software to link this parametric model to the evaluation subroutines executing in the external analysis tool, and re-evaluate the KPPs on an as-needed basis

D. Use activity and/or state models to accurately model the flow of data to numerically solve the KPP evaluation equations Ensure that the analysis team validates these behavior models Bind each relevant value property within the system model to an activity parameter or state variable such that the KPP evaluation model accurately reflects how the

KPPs are derived. Next, use code generation capability inherent in the SysML tool to generate and compile the KPP evaluation routines Recompile and run these routines as needed to update KPP estimates

Correct Answer: B