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Question 1

Question Type: MultipleChoice

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?

Options:

A- BPMN

B- English

C- OCL

D- OWL

E- VSL

F- XMI

G- XML

Answer:

F

Question 2

Question Type: MultipleChoice

Choose the correct answer

is it possible to conduct a systems engineering project without applying a methodology?

Options:

- A- Yes. if only the project's tasks are defined
- B- Yes. if only the project's processes are defined.
- C- No. system engineering projects will fail if no dedicated methodology is applied
- D- No. even if no formal methodology is applied, working spontaneously is considered to be a methodology

Answer:

C

Question 3

Question Type: MultipleChoice

Choose the correct answer

A systems engineer is establishing a viewpoint whose purpose is to support performance analysis.

Which combination of SysML diagram types would the engineer be most likely to choose for the viewpoint languages?

Options:

A- sequence and state diagrams

B- parametric and activity diagrams

C- use case and requirements diagrams

D- block definition and package diagrams

Answer:

C

Question 4

Question Type: MultipleChoice

Choose the correct answer

What is one of the best reasons for a modeling Systems Engineer to use OCL?

Options:

- A- OCL transforms easily into code
- B- OCL facilitates understanding by engineers.
- C- OCL can express any imaginable constraint
- D- OCL allows for precise specification of constraints based on contents of the model

Answer:

B

Question 5

Question Type: MultipleChoice

Choose the correct answer

What are some general rules to be applied at the end of requirements analysis to determine that (1) an activity diagram is self-consistent and (2) all elements on the diagram belong there'

Select the option that gives the most general answer without including any irrelevant rules

Options:

- A-** Every diagram element is traceable to a requirement or use case. (2) Every input object can be traced through the diagram to an output object, buffer, or data store. (3) There is a path from the initial node to every activity final and flow final node
- B-** Every diagram element is traceable to a requirement, use case or undocumented user need. (2) Every input object can be traced through the diagram to (a) an output object, buffer, data store or the object is consumed without producing any other object (3) .There is a path from the initial node to every activity final and How final node. (b) an action that clearly states how
- C-** Every diagram element is traceable to a requirement or use case (2) Every Input object can be traced through the diagram to (a) an output object, buffer, or data store how the object is consumed without producing any other object fv (3) There is a path from the initial node to every activity final and flow final node or (b) an action that clearly states
- D-** Every diagram element is traceable to a requirement or use case (2) Every input object can be traced through the diagram to (a) an output object, buffer or data store how the object is consumed without producing any other object. (3) There is a path from the initial node to every activity final and flow final node (4) The diagram has no cycles of control flows or (b) an action that clearly states

Answer:

C

Question 6

Question Type: MultipleChoice

Choose the correct answer

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

Options:

- 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 poor 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

Answer:

B

Question 7

Question Type: MultipleChoice

Choose the correct answer

In addition to selecting the methodology activities to be performed, what other tailoring does the systems modeling team need to consider when defining the project methodology?

Options:

- A- which activities will interact with external systems
- B- which kind of diagrams will be used to create the domain model
- C- which artifacts need to be produced when executing the tailored activities
- D- which requirements will be allocated to the specialty engineering activities

Answer:

C

Explanation:

An artifact is a tangible or intangible product or outcome of an activity or process. Examples of artifacts include models, diagrams, documents, reports, etc. When defining the project methodology, the systems modeling team needs to consider which artifacts need to be produced when executing the tailored activities, because this determines what information needs to be captured, communicated, and delivered throughout the project lifecycle. The artifacts should be aligned with the project objectives, scope, deliverables, and quality standards

Question 8

Question Type: MultipleChoice

Choose the correct answer

Which kind of allocation relationship is pivotal in a Y development approach?

Options:

A- function To code

B- property to structure

C- requirement to design

D- function to structure

Answer:

D

Explanation:

A V development approach is a systems engineering methodology that follows a V-shaped process model. The left side of the V represents the decomposition of requirements into system and subsystem specifications. The bottom of the V represents the integration and testing of system components. The right side of the V represents the verification and validation of system performance against requirements. A function to structure allocation relationship is pivotal in a V development approach, because it defines how the system functions are realized by the system structure (i.e., components). This relationship enables traceability and consistency between requirements, design, implementation, and testing

Question 9

Question Type: MultipleChoice

Choose the correct answer

Which statement is true regarding a typical model-based systems engineering methodology?

Options:

- A- The activities in a typical systems engineering methodology are applied iteratively
- B- The activities in a typical systems engineering methodology are applied sequentially.
- C- The activities in a typical systems engineering methodology can be performed in any order
- D- The activities in u typical systems engineering methodology work just as well for specialty engineering activities

Answer:

A

Explanation:

A systems engineering methodology is a collection of related processes, methods, and tools that support the discipline of systems engineering in a specific context. The activities in a typical systems engineering methodology are applied iteratively, meaning that they are repeated and refined until a satisfactory solution is achieved. The activities are not applied sequentially, meaning that they are not performed in a fixed order without revisiting previous steps. The activities cannot be performed in any order, because they have logical dependencies and prerequisites. The activities do not work just as well for specialty engineering activities, because they may require different processes, methods, and tools

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