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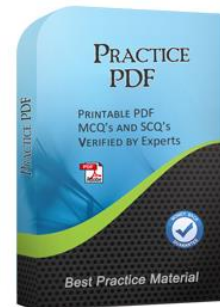
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Exam : **OMG-OCSMP-MBF200**

Title : **OMG-Certified Systems
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Version : **DEMO**

NO.1 In SysML, which element is often used to visually group related requirements?

- A. State
- B. Activity
- C. Actor
- D. Package

Answer: D

NO.2 Which of the following is a benefit of organizing a system model into hierarchical packages in SysML?

- A. Simplifies system behavior modeling
- B. Facilitates better management and modularization of complex systems
- C. Reduces the need for requirement diagrams
- D. Replaces the need for parametric modeling

Answer: B

NO.3 Which SysML diagram is used to model the internal structure of a block, showing its parts and connections?

- A. Sequence Diagram
- B. Block Definition Diagram
- C. Internal Block Diagram
- D. Activity Diagram

Answer: C

NO.4 What is the purpose of applying a stereotype to a block in SysML?

- A. To allocate behaviors to the block
- B. To assign specific characteristics or properties to the block beyond the standard SysML definitions
- C. To decompose the block into smaller elements
- D. To visualize the block's interactions with other systems

Answer: B

NO.5 In an activity diagram, what does a control flow represent?

- A. The flow of data between blocks
- B. The flow of control between activities
- C. The allocation of resources
- D. The state of the system

Answer: B

NO.6 Which of the following best defines a SysML diagram?

Response:

- A. A text-based representation of system behavior
- B. A view that shows specific parts of the system model
- C. A graphical representation of all system components
- D. A tool used only for hardware systems

Answer: B

NO.7 What is the role of a SysML model when analyzing system performance?

- A. To identify hardware specifications
- B. To automate system behavior
- C. To define system requirements only
- D. To evaluate the system using parametric diagrams for performance constraints

Answer: D

NO.8 What is the benefit of using hierarchical packages in SysML to manage large system models?

- A. Ensures all components are automated
- B. Allows for easier navigation and understanding of the system's complexity
- C. Eliminates manual processes
- D. Provides detailed system behavior descriptions

Answer: B

NO.9 What is the primary function of a system model in SysML?

- A. To automate business processes
- B. To represent and analyze system structure and behavior
- C. To generate software code
- D. To define hardware specifications

Answer: B

NO.10 What is the role of a join node in an activity diagram?

- A. To split the control flow into multiple parallel branches
- B. To merge multiple control flows into a single flow
- C. To stop the activity execution
- D. To represent decision-making points

Answer: B

NO.11 What is a key difference between composition and aggregation in SysML?

- A. Composition represents a stronger part-whole relationship where the part cannot exist without the whole, while aggregation allows the part to exist independently.
- B. Aggregation represents ownership, while composition represents behavior.
- C. Aggregation is used for behavioral modeling, while composition is used for structural modeling.
- D. There is no difference between composition and aggregation.

Answer: A

NO.12 In a Block Definition Diagram (BDD), what does an aggregation relationship signify?

- A. A whole-part relationship where the part can exist independently of the whole
- B. A behavior flow between parts
- C. An inheritance relationship between blocks
- D. A data flow between blocks

Answer: A