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Question: 1

In SysML, what is the relationship between a package diagram and the overall system model?

- A. The package diagram defines system behavior
- B. The package diagram organizes the model into hierarchical structures
- C. The package diagram shows physical hardware
- D. The package diagram replaces activity diagrams

Answer: B

Question: 2

In SysML, which type of relationship is used to show that one block is made up of multiple parts?

- A. Generalization
- B. Aggregation
- C. Composition
- D. Association

Answer: C

Question: 3

Which of the following best describes an allocation relationship in SysML?

- A. It maps constraints to system behavior.
- B. It shows the decomposition of system requirements.
- C. It assigns responsibility for actions, properties, or roles to model elements.
- D. It organizes model elements into hierarchical structures.

Answer: C

Question: 4

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

Question: 5

What is the main purpose of an "interaction fragment" in a sequence diagram?

- A. To represent the state transitions of a system
- B. To capture modular, reusable parts of the interaction sequence
- C. To define the parametric relationships of the system
- D. To show the internal structure of the system

Answer: B

Question: 6

What type of SysML diagram would you use to show how system requirements are related to verification methods?

- A. Block Definition Diagram
- B. Use Case Diagram
- C. Requirements Diagram
- D. Activity Diagram

Answer: C

Question: 7

What is a constraint block in a SysML Block Definition Diagram (BDD)?

- A. A block that defines limitations on a system's behavior
- B. A block that imposes conditions or constraints on the relationships between parts of the system
- C. A block that automates a system's actions
- D. A block used only for internal documentation

Answer: B

Question: 8

How are requirement relationships often represented in a requirements matrix?

- A. As activities
- B. As rows and columns showing relationships between requirements and system elements
- C. As diagrams
- D. As use case scenarios

Answer: B

Question: 9

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

Question: 10

In SysML, what is the main purpose of an activity diagram's fork node?

- A. To show state transitions
- B. To split one control flow into multiple concurrent flows
- C. To merge multiple flows into one
- D. To terminate the system process

Answer: B

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