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Question: 1

Which element of SysML is used to define system behavior in response to events?

Response:

- A. State Machine Diagram
- B. Parametric Diagram
- C. Block Definition Diagram
- D. Package Diagram

Answer: A

Question: 2

Which relationship in a SysML Block Definition Diagram (BDD) defines a whole-part relationship where the part can exist independently of the whole?

Response:

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

Answer: B

Question: 3

What is the primary purpose of a Block Definition Diagram (BDD) in SysML?

Response:

- A. To model the behavior of a system
- B. To define the structure of a system using blocks and their relationships
- C. To capture system requirements
- D. To describe sequence interactions in a system

Answer: B

Question: 4

How does SysML ensure consistency between multiple diagrams representing a model?

Response:

- A. By making each diagram independent of the model
- B. By using constraints to link diagrams
- C. By sharing common elements across different diagrams within a model
- D. By enforcing single-diagram modeling

Answer: C

Question: 5

When using an allocation relationship in SysML, what type of elements can be linked?

Response:

- A. Only blocks and components
- B. Any two model elements, including actions, blocks, and requirements
- C. Only requirements and constraints
- D. Only use cases and sequences

Answer: B

Question: 6

In a SysML activity diagram, how is a concurrent execution of activities represented?

Response:

- A. Decision Node
- B. Fork Node
- C. Control Flow
- D. Join Node

Answer: B

Question: 7

In a SysML parametric diagram, what does a constraint block define?

Response:

- A. System requirements
- B. Behavior flow
- C. Mathematical relationships between properties
- D. Use case interactions

Answer: C

Question: 8

Which SysML diagram is used to model the internal structure of a block, showing its parts and connections?

Response:

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

Answer: C

Question: 9

How are associations represented in a SysML Block Definition Diagram (BDD)?

Response:

- A. As solid lines with arrowheads
- B. As dashed lines with no arrowheads
- C. As solid lines without arrowheads
- D. As dashed lines with arrowheads

Answer: C

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