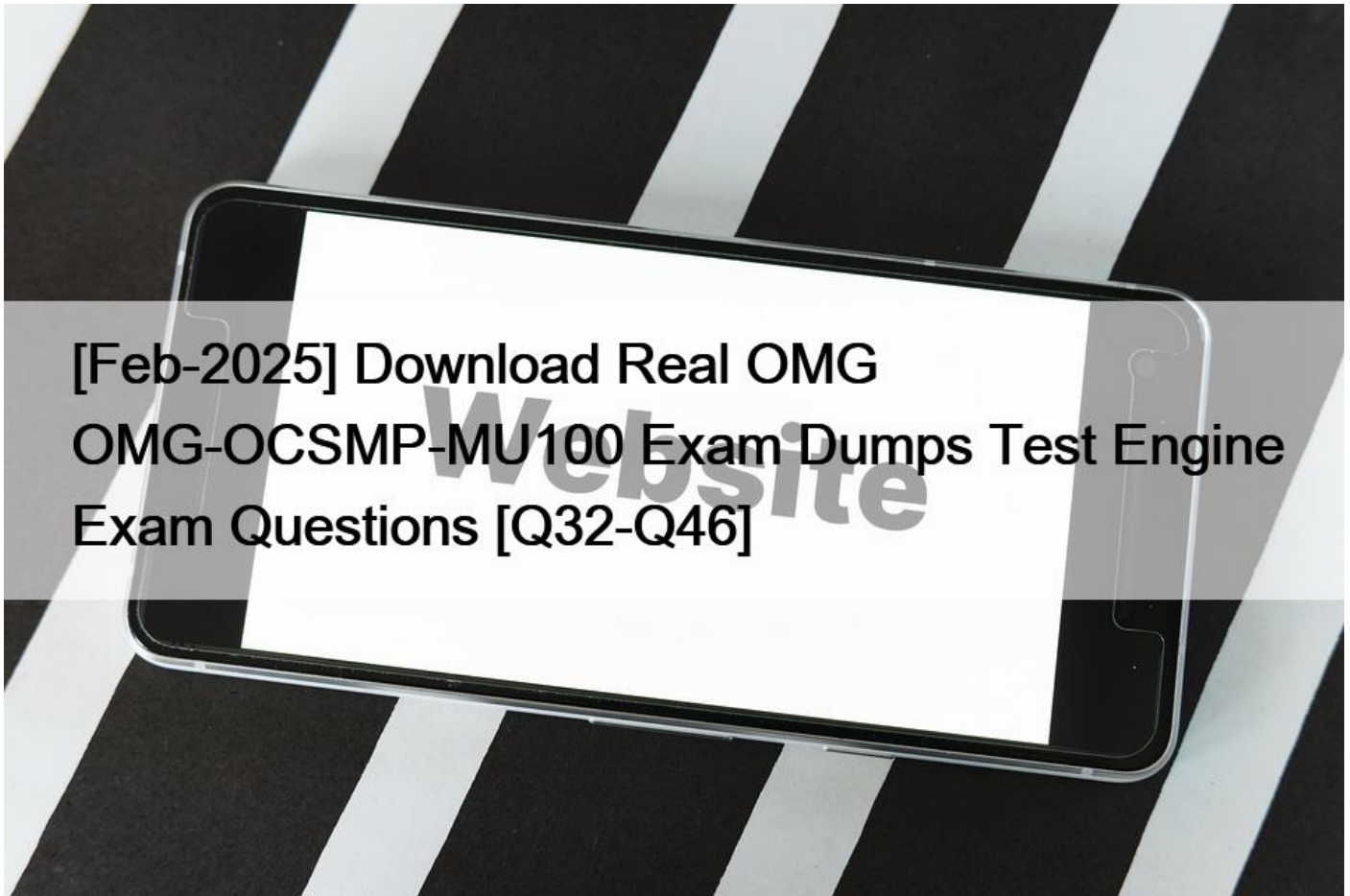


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NO.32 Which option correctly describes the effect of an object flowing into and out of a data store?

Choose the correct answer.

Response:

*

* Flow in (object already present)	Flow in (object not already present)	Flow out
Existing object overwritten	Object added to store	Object remains in store (copy flows out)

* Flow in (object already present)	Flow in (object not already present)	Flow out
New object added to store	Object added to store	Most recently added version flows out

* Flow in (object already present)	Flow in (object not already present)	Flow out
Error	Object added to store	Object remains in store (copy flows out)

NO.33 Which of the following diagrams in SysML is used to represent structural relationships and interactions between components in a system?

Response:

- * Activity Diagram
- * State Machine Diagram
- * Block Definition Diagram
- * Use Case Diagram

NO.34 In requirements modeling, what does a class in a Class Diagram represent?

Response:

- * A specific way in which a system interacts with an external entity
- * The dynamic behavior of a system in terms of states and transitions
- * A collection of objects with similar properties and behavior
- * The flow of control between system components

NO.35 In system modeling, what does a Package Diagram focus on?

Response:

- * The dynamic behavior of a system in terms of states and transitions
- * The internal structure and collaborations between parts within a system
- * The hierarchical decomposition of a system into subsystems or modules
- * The allocation of software components to hardware nodes

NO.36 In requirements modeling, what is the purpose of a data flow diagram (DFD)?

Response:

- * To represent the dynamic behavior of a system
- * To illustrate the interactions between actors and the system
- * To specify the sequence of messages between system components
- * To depict the flow of data within a system and between external entities

NO.37 Which model of system structure represents data in a collection of nodes that are connected by edges, with each node having multiple parents or children?

Response:

- * Hierarchical model
- * Network model
- * Relational model
- * Object-oriented model

NO.38 Which SysML diagram is used to illustrate the allocation of system requirements to specific blocks or components?

Response:

- * Activity Diagram
- * Requirement Diagram
- * Sequence Diagram
- * State Machine Diagram

NO.39 Which modeling technique is most suitable for illustrating the interactions between actors and the system?

Response:

- * Class Diagram
- * Object Diagram
- * Use Case Diagram
- * Composite Structure Diagram

NO.40 Which of the following is a cross-cutting construct that is used to represent the ability to combine different software components to create a larger system?

Response:

- * Composition
- * Inheritance
- * Polymorphism
- * Encapsulation

NO.41 Which of the following is a cross-cutting construct that is used to represent the ability to represent data and behavior as a single entity?

Response:

- * Inheritance
- * Polymorphism
- * Encapsulation
- * Modularity

NO.42 A requirement has the following properties:

Response:

- * id
- * text
- * verification method
- * rationale

NO.43 What is the purpose of a Parametric Diagram?

Response:

- * To display the external structure of a block with focus of the bindings between value properties
- * To display the bindings between constraint parameters in different constraint expressions to create a composite system of equations
- * To display the bindings between constraint parameters and value properties to apply a constraint expression to a block

NO.44 In SysML, what is the purpose of a Use Case Diagram?

Response:

- * To represent the internal structure of a block
- * To model the behavior of an object in terms of states and transitions
- * To describe the dynamic behavior of a system from the user,s perspective
- * To define a set of operations that can be performed by a block

NO.45 Which relationship in SysML indicates that one block includes another block, but the included block can exist independently of the including block?

Response:

- * Dependency
- * Association
- * Generalization
- * Composition

NO.46 The stereotype rationale precedes the body of the comment when using

Response:

- * When using allocation relationships
- * When using a meaningful allocation
- * When using activity partitions

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