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NEW QUESTION: 1

In requirements modeling, what does a collaboration diagram focus on?

Response:

- A. The sequence of messages between system components
- B. The structural relationships between entities
- C. The dynamic behavior of a system in terms of states and transitions
- D. The interactions and collaborations between objects

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 2

In SysML, what is a Constraint Block used for?

Response:

- A. To represent the flow of control between system components
- B. To define a set of operations that can be performed by a block
- C. To specify a set of constraints on a system
- D. To model the behavior of an object in terms of states and transitions

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 3

According to the SE Handbook by INCOSE, what are valid "allocations"?

(Choose two)

Response:

- A. Allocating behaviors to structures
- B. Allocating resources to structures
- C. Allocating physical to logical structures
- D. Allocating activities to sequences

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 4

What is the purpose of a Port in SysML?

Response:

- A.** To specify the points of interaction between a block and its environment
- B.** To define a set of operations that can be performed by a block
- C.** To represent the internal structure of a block
- D.** To model the behavior of an object in terms of states and transitions

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 5

Which model of system behavior is used to represent the behavior of a system as a series of states and the transitions between them?

Response:

- A.** Flow model
- B.** Process model
- C.** State-transition model
- D.** Activity model

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 6

Which SysML diagram is suitable for representing the organization of blocks and their relationships within a system?

Response:

- A.** Composite Structure Diagram
- B.** Activity Diagram
- C.** Package Diagram
- D.** Component Diagram

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 7

A "port" is a type of "connector"

Response:

- A.** False
- B.** True

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 8

In requirements modeling, what is the purpose of a sequence diagram?

Response:

- A. To represent the dynamic behavior of a system in terms of states and transitions
- B. To depict the flow of data within a system
- C. To illustrate the interactions between actors and the system
- D. To specify the sequence of messages between system components

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 9

Which of the following is an advantage of using aspect-oriented programming for handling cross-cutting concerns?

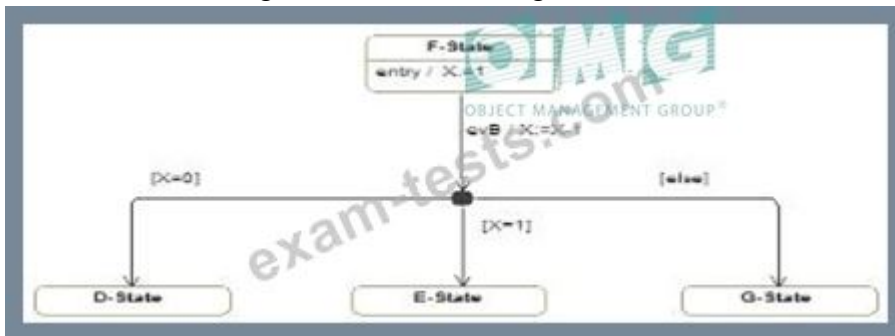
Response:

- A. Reduced runtime performance
- B. Limited flexibility in handling different concerns
- C. Increased code duplication
- D. Improved modularity and maintainability

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 10

Given the following state machine fragment.



If it starts in F-State and then the event evB is received, what is the subsequent state?

Choose the correct answer.

Response:

- A. F-State
- B. G-State
- C. None: the diagram is ill-formed
- D. E-State
- E. D-State

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 11

In system modeling, what does a Composite Structure Diagram represent?

Response:

- A. The internal structure and collaborations between parts within a system
- B. Instances of classes and their relationships at a specific point in time
- C. The dynamic behavior of a system in terms of states and transitions

D. The static structure of a system in terms of components and their relationships

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 12

What is "advice" in the context of aspect-oriented programming?

Response:

A. The process of encapsulating concerns into aspects during runtime or compile-time

B. The encapsulated cross-cutting concern, along with the specified join points and pointcuts

C. The weaving process of aspects into the codebase

D. The process of integrating new features into the existing codebase

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 13

Which SysML diagram is used to illustrate the allocation of system requirements to specific blocks or components?

Response:

A. State Machine Diagram

B. Requirement Diagram

C. Activity Diagram

D. Sequence Diagram

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 14

In SysML, what is the purpose of an Interface Block?

Response:

A. To describe the dynamic behavior of a system

B. To define a set of operations that can be performed by a block

C. To model the flow of control between system components

D. To represent a state of an object in a specific condition

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 15

Which of the following is a cross-cutting construct that is used to represent the ability to organize code into reusable units?

Response:

A. Encapsulation

B. Polymorphism

C. Modularity

D. Inheritance

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 16

Which model of system structure represents data in a tree-like structure with a single root, and parent-child relationships between nodes?

Response:

- A. Relational model
- B. Hierarchical model
- C. Object-oriented model
- D. Network model

Answer: B ([LEAVE A REPLY](#))

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NEW QUESTION: 17

What are types of requirement relationships?

Response:

- A. Containment
- B. Validate
- C. Verify
- D. Trace
- E. Refine

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 18

In system behavior modeling, what does an Interaction Overview Diagram focus on?

Response:

- A. An overview of the flow of control between system components
- B. The dynamic behavior of a system in terms of states and transitions
- C. The interactions between actors and the system over time
- D. The allocation of software components to hardware nodes

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 19

What is the primary purpose of an Object Diagram in system modeling?

Response:

- A. To show instances of classes and their relationships at a specific point in time
- B. To depict the static structure of a system in terms of classes and their relationships
- C. To represent the allocation of software components to hardware nodes
- D. To illustrate the interactions between actors and the system

Answer: [\(SHOW ANSWER\)](#)

NEW QUESTION: 20

When are Block Definition Diagrams used in the system lifecycle?

Response:

- A. Stakeholder needs analysis
- B. Integration
- C. Design
- D. Any
- E. Operational

Answer: D [\(LEAVE A REPLY\)](#)

NEW QUESTION: 21

Which statements are true?

Response:

- A. A Block can have Ports, and Ports can have Connectors to internal Parts or Ports of Parts.
- B. Ports may carry flows of any sort of Block, Signal, or ValueType.
- C. Part properties can also have Ports, and their Ports can have Connectors to internal Parts, Ports of internal Parts, or to boundary Ports of a Block

Answer: B [\(LEAVE A REPLY\)](#)

NEW QUESTION: 22

Which requirements modeling technique is useful for capturing and organizing user stories and acceptance criteria?

Response:

- A. User Story Map
- B. State Machine Diagram
- C. Data Flow Diagram (DFD)
- D. Use Case Diagram

Answer: A [\(LEAVE A REPLY\)](#)

NEW QUESTION: 23

Use Case diagrams describe the usages of a system by

Response:

- A. Humans
- B. Its actors
- C. Cameo

D. Other systems

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 24

Which aspect-oriented programming concept allows the definition of join points, pointcuts, and advice?

Response:

A. Encapsulation

B. Modularity

C. Aspect

D. Weaving

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 25

Which model of requirements is most suitable for specifying the relationships between objects in the system?

Response:

A. Data models

B. Use case models

C. Object models

D. State-transition models

E. Activity models

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 26

What is the primary purpose of a Constraint Block in SysML?

Response:

A. To represent a block with complex internal structure

B. To model the flow of control between components

C. To describe the allocation of requirements to system elements

D. To specify a set of constraints on a system

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 27

Which requirements model is best suited for representing the dynamic behavior of a system in response to stimuli over time?

Response:

A. Class Diagram

B. Activity Diagram

C. State Machine Diagram

D. Use Case Diagram

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 28

Which of the following diagrams in SysML is used to represent structural relationships and interactions between components in a system?

Response:

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

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 29

In system modeling, what does a Sequence Diagram focus on?

Response:

- A. The interactions between actors and the system
- B. The dynamic behavior of a system in terms of states and transitions
- C. The allocation of software components to hardware nodes
- D. The sequence of messages between system components

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 30

A requirement has the following properties:

Response:

- A. id
- B. text
- C. verification method
- D. rationale

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 31

Allocating a software property to a hardware property is a form of...

Response:

- A. Family allocation
- B. Block allocation
- C. Allocation matrix
- D. Structural allocation

Answer: D ([LEAVE A REPLY](#))

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NEW QUESTION: 32

Which modeling technique is best suited for representing the hierarchical decomposition of a system into subsystems or modules?

Response:

- A. Composite Structure Diagram
- B. Class Diagram
- C. Package Diagram
- D. Sequence Diagram

Answer: C (LEAVE A REPLY)

NEW QUESTION: 33

Which is false?

Response:

- A. A namespace is a model that contains other models
- B. A namespace has meaning within an instance of the system
- C. A package is a type of namespace

Answer: A (LEAVE A REPLY)

NEW QUESTION: 34

Which modeling technique is useful for illustrating the flow of control between system components?

Response:

- A. Class Diagram
- B. Composite Structure Diagram
- C. Package Diagram
- D. Object Diagram

Answer: B (LEAVE A REPLY)

NEW QUESTION: 35

Which requirements modeling technique is best suited for representing the structural relationships between entities in a system?

Response:

- A. Class Diagram
- B. Use Case Diagram
- C. State Machine Diagram
- D. Activity Diagram

Answer: (SHOW ANSWER)

NEW QUESTION: 36

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:

- A. Inheritance
- B. Modularity
- C. Encapsulation
- D. Polymorphism

Answer: ([SHOW ANSWER](#))

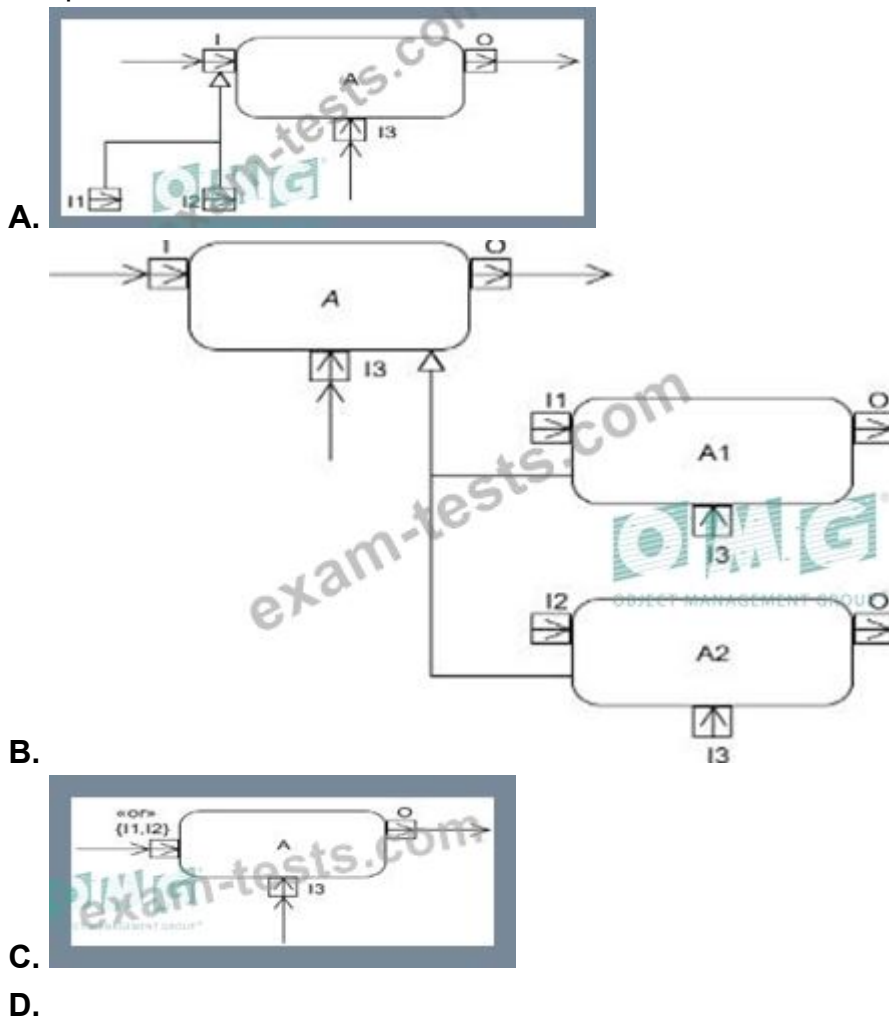
NEW QUESTION: 37

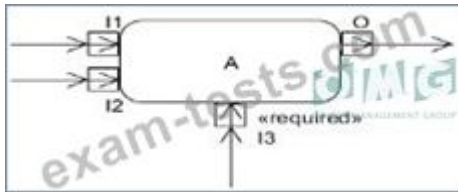
A has three inputs I 1, I 2 and I3 and one output O, I1, I2, I3 and O are all of the same type A requires I1 or I2 to execute but I1 and I2 are mutually exclusive. I3 must be present for A to begin.

Which activity diagram fragment correctly shows A with its three inputs and one output?

Choose the correct answer

Response:





E.
Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 38

What is the primary focus of a use case description in requirements modeling?

Response:

- A. Project scheduling
- B. User interactions and goals
- C. System architecture
- D. Internal implementation details

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 39

What are the disadvantages of Activity Diagrams?

Response:

- A. Connectivity (or lack thereof)
- B. Ambiguity
- C. Complexity

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 40

The stereotype rationale precedes the body of the comment when using

Response:

- A. When using allocation relationships
- B. When using activity partitions
- C. When using a meaningful allocation

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 41

Teamwork Cloud is:

Response:

- A. A system for concurrent working
- B. A component of Cameo Simulation Toolkit
- C. A system for sharing files

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 42

The requirement table can be used to:

Response:

- A. Set requirement as a child of another requirement
- B. Check correctness of requirements
- C. Create new requirements
- D. Filter requirements

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 43

SysML describes how to create and store text-based requirement.

#	Id	△ Name	Text	Refined By
1	STN1	 STN1 Power source	Headphones shall charge using USB 2.0 as charging source	 Charge  : USB Charging Source
2	STN2	 STN2 Pairing	Headphones pairing shall be intuitive and straight forward	 1 Pair With Device
3	STN3	 STN3 Battery capacity	Battery shall last long enough to see full movie.	 operation time : time = 4.0
4	STN4	 STN4 Charging time	Charging time shall be short.	 charging time : time = 2.0
5	STN5	 STN5 Dynamic range	High quality dynamic range.	 dynamic range low : frequency  dynamic range high : frequency
6	STN6	 STN6 Solid material	Headphones shall look and feel as very solid.	
7	STN7	 STN7 Comfortable	User shall not feel weight or pressure	 weight : mass = 11.0 oz  weight balance between e
8	STN9	 STN9 Audio source	headphones shall play sound from bluetooth and Line-in sources	 Listen to Line In Device  3 Listen to Paired BT Device  1 Pair With Device  : Bluetooth Audio Device  : Line In Audio Device

Response:

- A. True
- B. False

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 44

What is the primary purpose of a Dependency Diagram in system modeling?

Response:

- A. To show relationships and dependencies between different elements of a system
- B. To model the interactions between actors and the system
- C. To represent the flow of control between system components
- D. To depict the internal structure of a block

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 45

Is SysML a programming language?

Response:

- A. No

B. Yes

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 46

Time constraints are mainly used in

Response:

A. Requirement Diagrams

B. Activity Diagrams

C. Sequence Diagrams

Answer: C ([LEAVE A REPLY](#))

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NEW QUESTION: 47

In SysML, what is the purpose of a Signal?

Response:

A. To describe the dynamic behavior of a system in terms of signals and their interactions

B. To define a set of operations that can be performed by a block

C. To represent the flow of control between system components

D. To model the structure of a system using blocks and relationships

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 48

What diagram would be most useful to communicate with the stakeholders?

Response:

A. Parametric

B. Communicate what to whom?

C. Activity

D. Use Case

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 49

A fork is mainly used to:

Response:

- A. Share an output with several actions
 - B. Have a good meal with other Systems Engineers
 - C. To trigger several actions in Activity Diagrams
- Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 50

The formula for the determinant of a square 2X2 matrix.

$|a \ b|$

$|c \ d|$

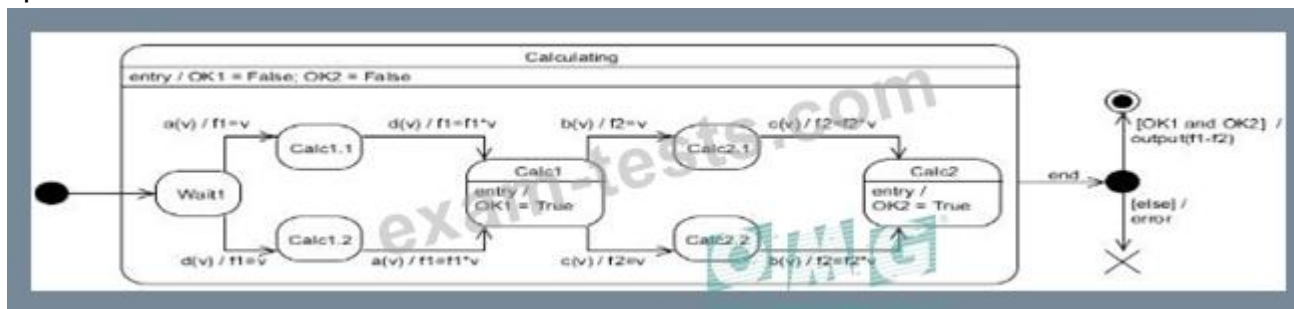
is $a \cdot d - b \cdot c$. A subsystem receives one message for each value (i.e. $a(v)$, $b(v)$, $c(v)$ and $d(v)$ where v is a real number). These messages can be in any order, and the ensure sequence is followed by an "end" message. The subsystem must calculate the determinant and output it upon receipt of the end message. If there are multiple messages for one value (e.g. two $a(v)$ messages), or the end message is received before all values have been received, the subsystem should signal an error.

Which state machine correctly models the required behavior?

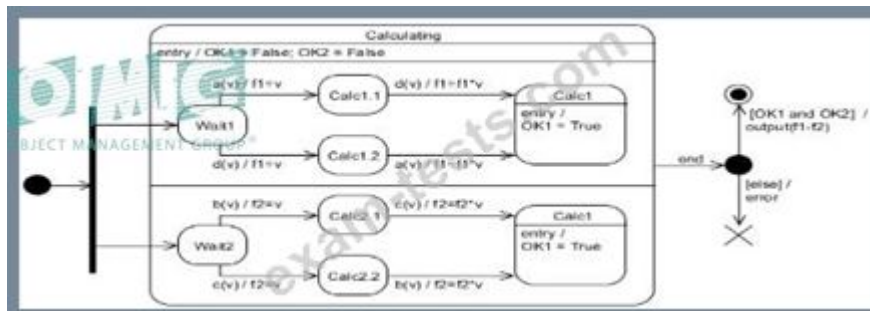
If more than one state machine is correct, select the one with the fewest states.

Choose the correct answer.

Response:

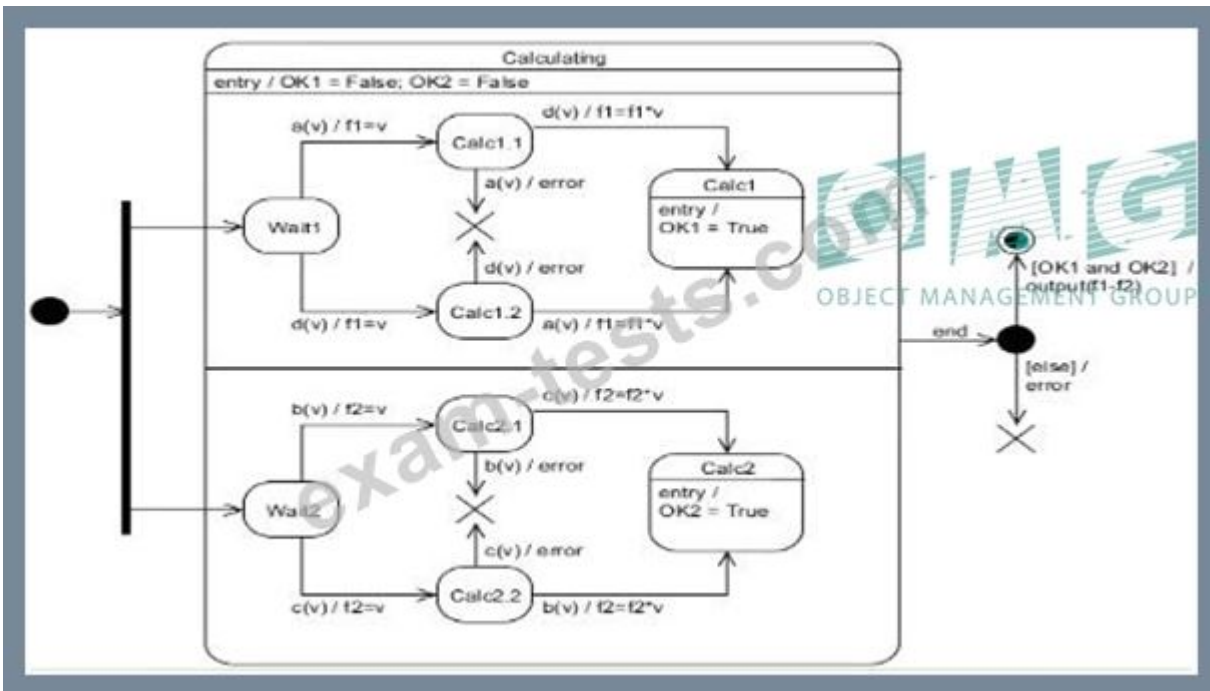


A.



B.

C.



D.

Answer: C (LEAVE A REPLY)

NEW QUESTION: 51

Which modeling technique is useful for showing the interactions and collaborations between objects within a system?

Response:

- A. Use Case Diagram
- B. Object Diagram
- C. Composite Structure Diagram
- D. Deployment Diagram

Answer: B (LEAVE A REPLY)

NEW QUESTION: 52

What are the possible values of the enumeration ControlValue?

Choose the correct answer.

Response:

- A. suspend and resume
- B. suspend, resume, enable and disable
- C. enable and disable
- D. It has no values, but is intended for a modeler to extend with their own control values.

Answer: (SHOW ANSWER)

NEW QUESTION: 53

What are the four pillars of SysML?

Response:

- A. Behavior

- B. Parametrics
- C. Requirements
- D. Structure
- E. Sequence

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 54

What is the primary purpose of a Sequence Diagram in system behavior modeling?

Response:

- A. To represent the dynamic behavior of a system in terms of states and transitions
- B. To depict the allocation of software components to hardware nodes
- C. To specify the sequence of messages between system components
- D. To illustrate the interactions between actors and the system over time

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 55

Which flow is not allowable in SysML:

Response:

- A. Circular Flow
- B. Unidirectional flows
- C. Bidirectional flows

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 56

Which requirements model is useful for specifying the constraints and dependencies between different elements of a system?

Response:

- A. Sequence Diagram
- B. Class Diagram
- C. Dependency Diagram
- D. Use Case Diagram

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 57

In the context of cross-cutting concerns, what is "weaving"?

Response:

- A. The process of encapsulating concerns into aspects during runtime or compile-time
- B. The process of integrating new features into the existing codebase
- C. The process of combining separate modules into a cohesive system
- D. The process of optimizing the performance of a software system

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 58

What is the purpose of a use case model in requirements engineering?

Response:

- A. To identify the actors involved in the system
- B. To capture the structure of the system,s data
- C. To describe the flow of events and interactions between actors and the system
- D. To specify the performance requirements of the system

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 59

In SysML, what is the purpose of a Parametric Diagram?

Response:

- A. To capture and organize system requirements and their relationships
- B. To describe the dynamic behavior of a system in terms of activities and their dependencies
- C. To show the state transitions of an object over time
- D. To model the relationships between parameters and constraints in a system

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 60

In an automotive context, can we represent "Drive vehicle" behavior with a Sequence Diagram?

Response:

- A. No
- B. Yes

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 61

What is the difference between SysML and MBSE?

Response:

- A. SysML captures the modelling information as part of an MBSE approach
- B. SysML is the syntax of MBSE
- C. They are the same thing
- D. MBSE captures the modelling information as part of a SysML approach

Answer: A ([LEAVE A REPLY](#))

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NEW QUESTION: 62

In system behavior modeling, what does a Sequence Diagram focus on?

Response:

- A. The allocation of software components to hardware nodes
- B. The interactions between actors and the system
- C. The dynamic behavior of a system in terms of states and transitions
- D. The sequence of messages between system components

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 63

What is the primary purpose of a scenario in requirements modeling?

Response:

- A. To illustrate the interactions between actors and the system
- B. To represent the dynamic behavior of a system in terms of states and transitions
- C. To specify the sequence of messages between system components
- D. To describe a specific situation or example of system behavior

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 64

SysML is required by UML.

Response:

- A. True
- B. False

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 65

Which programming language is often associated with the development of aspect-oriented programs?

Response:

- A. C++
- B. Java
- C. AspectJ
- D. Python

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 66

In system modeling, what does an Object Diagram represent?

Response:

- A. Instances of classes and their relationships at a specific point in time

- B. The interactions between actors and the system
- C. The dynamic behavior of a system in terms of states and transitions
- D. The sequence of messages between system components

Answer: A ([LEAVE A REPLY](#)**)**

NEW QUESTION: 67

What is the primary goal of modularizing cross-cutting concerns?

Response:

- A. To increase the runtime performance of the system
- B. To improve maintainability and reduce code duplication
- C. To make the codebase more complex
- D. To make it easier to implement new features

Answer: B ([LEAVE A REPLY](#)**)**

NEW QUESTION: 68

In a Block Definition Diagram (BDD) can we include both code-like information and...

Response:

- A. Graphically oriented data
- B. Embedded files
- C. Illustrations

Answer: A ([LEAVE A REPLY](#)**)**

NEW QUESTION: 69

How does the Strategy Pattern address cross-cutting concerns?

Response:

- A. By providing a way to define a family of algorithms, encapsulate each one, and make them interchangeable
- B. By allowing objects to communicate with each other without knowing their concrete classes
- C. By separating concerns into distinct modules and weaving them together
- D. By encapsulating algorithms and allowing them to vary independently

Answer: D ([LEAVE A REPLY](#)**)**

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