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Questions & Answers PDF

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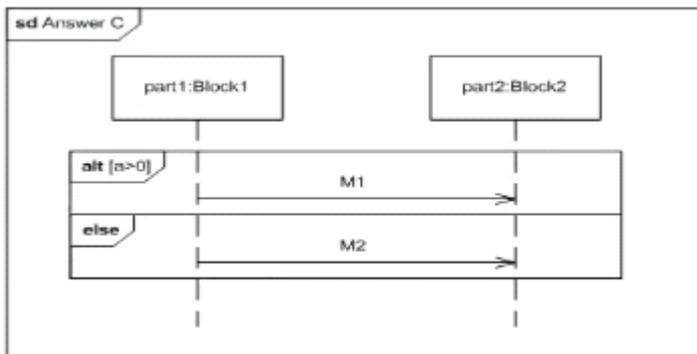
Question: 1

Block 1 has a value property 'a' part 1. typed by Block1 sends the message M1 if a>0; otherwise it sends message M2. Which diagram depicts this scenario?

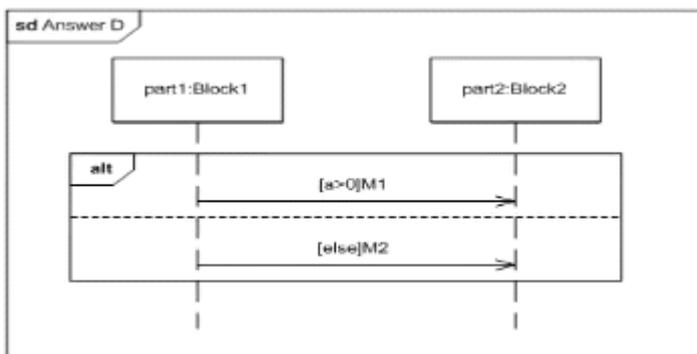
Choose the correct answer.

Response:

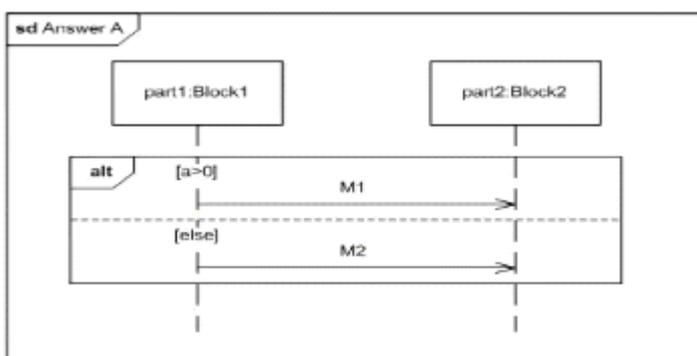
A.



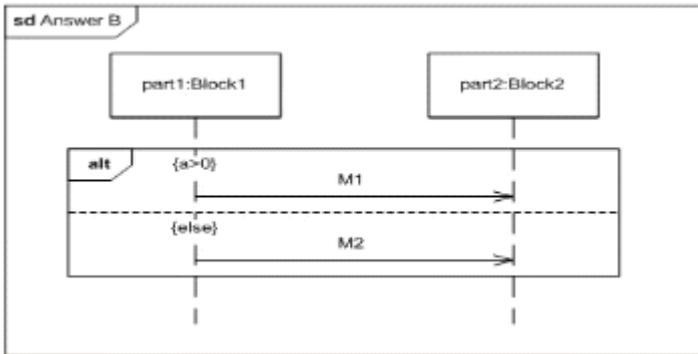
B.



C.



D.



Answer: A

Question: 2

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

Response:

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

Answer: C

Question: 3

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

Response:

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

Answer: D

Question: 4

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

Response:

- A. Use case models
- B. Activity models
- C. Object models
- D. State-transition models
- E. Data models

Answer: C

Question: 5

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

Response:

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

Answer: C

Question: 6

What is the purpose of Package diagrams?

Response:

- A. Organize and structure the model (like the files structure on your PC)
- B. To give a formal rule to the project structure

Answer: A

Question: 7

What is the primary goal of encapsulating cross-cutting concerns using aspect-oriented programming?

Response:

- A. To increase code complexity
- B. To improve runtime performance
- C. To simplify the codebase
- D. To enhance modularity and maintainability

Answer: D

Question: 8

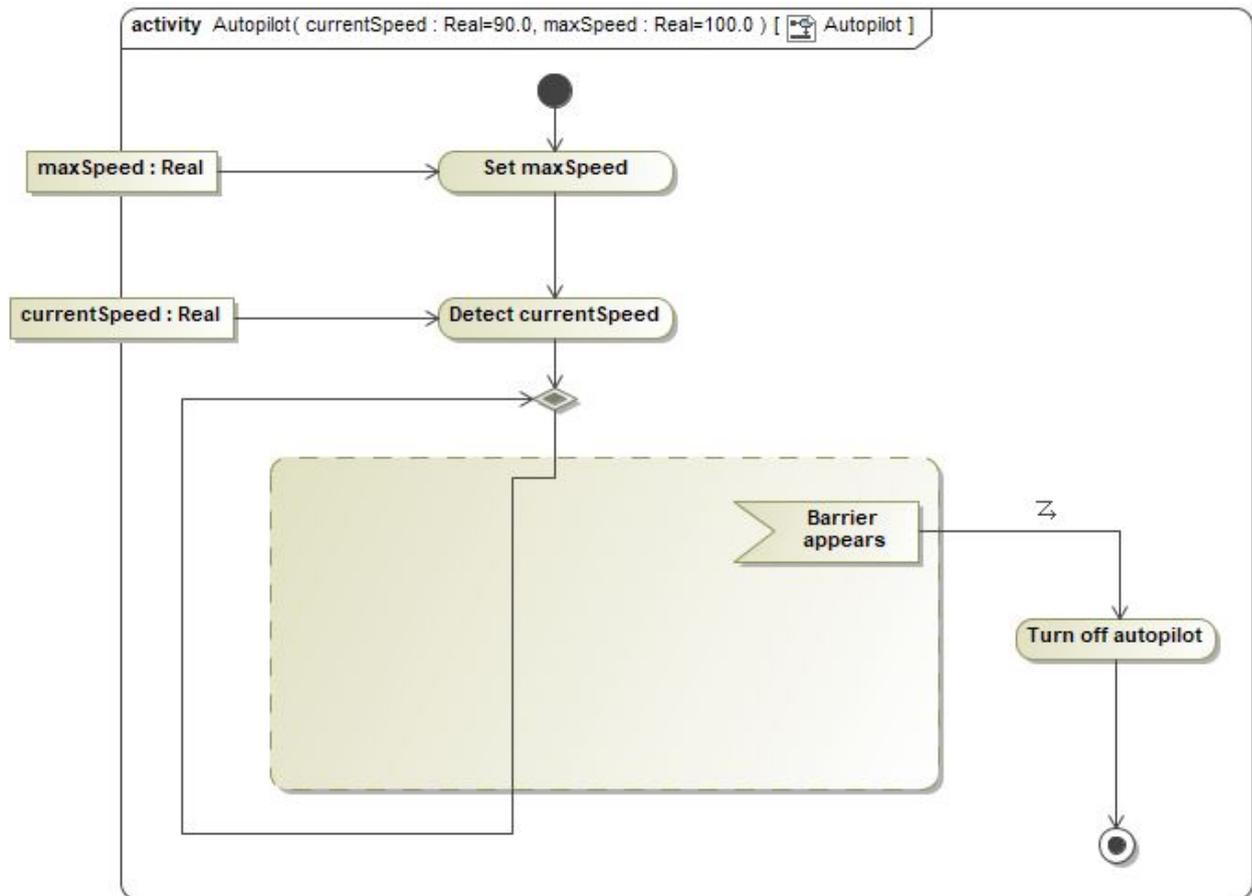
What are types of requirement relationships?
Response:

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

Answer: A,B,D,E

Question: 9

What is missing in this Activity Diagram?



Response:
Nothing

- A. A "maxSpeed" parameter
- B. A stopping block
- C. A "Check Speed" block

Answer: D

Question: 10

Which option correctly describes the effect of an object flowing into and out of a data store?
Choose the correct answer.

Response:

- A.

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)

B.

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

C.

Flow in (object already present)	Flow in (object not already present)	Flow out
Error	Object added to store	Object removed from store

D.

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)

Answer: B



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