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Exam : **C2140-834**

Title : Object Oriented Analysis
and Design-Part2(Design)

Version : DEMO

1. Which statement is true about elements within the subsystem and public visibility?

- A. Only the subset of elements that define the subsystems API should have public visibility.
- B. Only the subsystem proxy class should have public visibility.
- C. No elements inside the subsystem should have public visibility.
- D. Only the elements that reference external classes should have public visibility.

Answer: C

2. What are the two types of dependency that can be used from a subsystem? (Choose two.)

- A. <<uses>> dependency to a subsystem interface
- B. an <<import>> dependency to a package containing used classes
- C. a <<manifest>> relationship to a node in the Deployment model
- D. a <<realize>> relationship to one or more collaboration occurrences

Answer: AB

3. Which task is performed during use-case realization refinement?

- A. identify participating classes
- B. allocate responsibilities among classes
- C. model messages between classes
- D. model associated class relationships

Answer: D

4. Which statement is true about design subsystems?

- A. They partially encapsulate behavior.
- B. They represent an independent capability with clear interfaces.
- C. They model a single implementation variant.
- D. They can only contain design classes.

Answer: B

5. Given the following configuration: Package A, which contains class aClass is in the presentation layer. Package B, which contains a class bClass and an interface bInterface is in the business layer. Package C, which contains cClass is in the data layer. Which is a poor practice?

- A. aClass calls a method in bClass.
- B. aClass has an attribute of type cClass.
- C. aClass realizes bInterface.
- D. bClass realizes bInterface.

Answer: B

6. Which process document describes design mechanisms, any mappings between design mechanisms, and the details regarding their use?

- A. Software Architecture Document
- B. Design Guidelines
- C. Vision Document
- D. Software Development Plan

Answer: C

7. In the state of a state machine, a behavior can be defined _____.

- A. before reaching a state
- B. upon reaching a state
- C. upon leaving a state
- D. inside a state

Answer: BCD

8. What is a gate?

- A. a parameter that represents a message that crosses the boundary of an interaction or interaction fragment
- B. a defined protocol for accessing the internals of a subsystem
- C. a decision point in a state machine that has more than two alternatives

D. a set of checkpoints each subsystem design must satisfy before it can be assigned for implementation

Answer: A

9. When identifying design elements, a simple analysis class will map to a(n)_____.

A. active class

B. interface

C. design class

D. subsystem

Answer: C

10. In which OOAD activity is the distribution mechanism identified?

A. Identify Design Elements

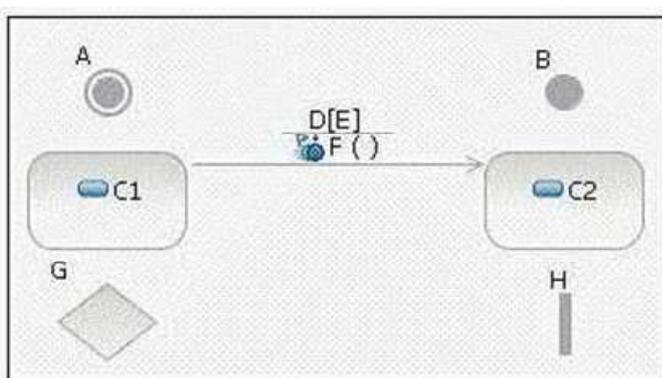
B. Identify Design Mechanisms

C. Class Design

D. Architectural Analysis

Answer: B

11. Click on the exhibit button In the diagram, what is E?



A. fork

B. initial state

C. decision

D. transition

- E. final state
- F. event
- G. state
- H. guard condition

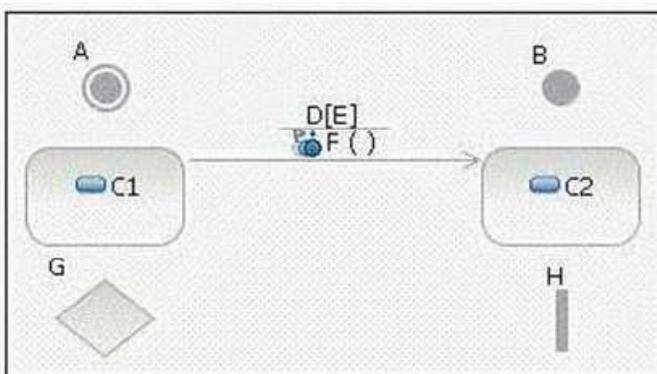
Answer: H

12. Identify Design Elements is part of which workflow detail?

- A. Define a Candidate Architecture
- B. Design Components
- C. Perform Architectural
- D. Refine the Architecture

Answer: D

13. Click on the exhibit button In the diagram, what is H?



- A. fork
- B. initial state
- C. decision
- D. transition
- E. final state
- F. event
- G. state

H. guard condition

Answer: A

14. What is the relationship between operation and method?

- A. The terms are synonymous.
- B. An operation describes how a method is implemented.
- C. A method describes how an operation is implemented.
- D. There is no relationship.

Answer: C

15. Why would you use subsystem interfaces rather than subsystem instances on sequence diagrams?

- A. to make it easier to model subsystems during Subsystem Design
- B. to make use-case realizations easier to change
- C. to ease sequence diagram maintenance when message signatures change
- D. to reduce the number of classes needed to implement the subsystem

Answer: B

16. Which is an input artifact to the Identify Design Elements activity?

- A. Deployment Model
- B. Implementation Model
- C. Reference Architecture
- D. Software Architecture Document

Answer: D

17. What is an important consideration when allocating processes to nodes?

- A. minimizing network traffic
- B. minimizing power consumption
- C. utilizing all available nodes
- D. physical distance between nodes

Answer: A

18. Which type of mechanism is a connector on a deployment diagram?

- A. backup
- B. communication
- C. transaction
- D. computation

Answer: B

19. A design mechanism _____.

- A. captures the key aspects of a solution in a way that is implementation-independent
- B. specifies the exact implementation of the mechanism and is bound to a certain technology, implementation language, or vendor
- C. is the same as a design pattern
- D. assumes some details of the implementation environment, but is not tied to a specific implementation

Answer: D

20. When identifying interfaces during the Identify Design Elements activity, which statement is true?

- A. Classes should not realize an interface.
- B. Each subsystem realizes only one interface.
- C. Interfaces should be identified before subsystems are created.
- D. Interfaces should be packaged separately from the elements that realize them.

Answer: D