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Vendor: IBM

Exam Code: C2140-834

Exam Name: Object Oriented Analysis and Design - Part
2 (Design)

Version: Demo

QUESTION 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.

Correct Answer: C

QUESTION 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

Correct Answer: AB

QUESTION 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

Correct Answer: D

QUESTION 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.

Correct Answer: B

QUESTION 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.

Correct Answer: B

QUESTION 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

Correct Answer: C

QUESTION 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

Correct Answer: BCD

QUESTION 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

Correct Answer: A

QUESTION 9

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

- A. active class
- B. interface
- C. design class
- D. subsystem

Correct Answer: C

QUESTION 10

In which OOAD activity is the distribution mechanism identified?

- A. Identify Design Elements
- B. Identify Design Mechanisms
- C. Class Design
- D. Architectural Analysis

Correct Answer: B

QUESTION 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

Correct Answer: H

QUESTION 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

Correct Answer: D

QUESTION 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

Correct Answer: A

QUESTION 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.

Correct Answer: C

QUESTION 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

Correct Answer: B

QUESTION 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

Correct Answer: D

QUESTION 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

Correct Answer: A

QUESTION 18

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

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

Correct Answer: B

QUESTION 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

Correct Answer: D

QUESTION 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.

Correct Answer: D

QUESTION 21

Additional subsystems can be discovered during Use Case Design by noting _____.

- A. common subflows between objects on several sequence diagrams
- B. similar objects on several sequence diagrams
- C. a consistent series of state transitions for multiple classes involved in a use-case realization
- D. the same design classes involved in more than one use-case realization

Correct Answer: A

QUESTION 22

Which activities are performed during Use Case Design?

- A. converting analysis classes into design classes and design subsystems
- B. describing persistence-related behavior
- C. describing object interactions that implement interface operations
- D. simplifying sequence diagrams using design classes

Correct Answer: B

QUESTION 23

On a sequence diagram, what is used to represent a specific subsystem?

- A. an interface that the subsystem realizes
- B. a subsystem proxy
- C. a subsystem component
- D. a subsystem class

Correct Answer: C

QUESTION 24

Which UML elements are used to describe the physical architecture of a system?

- A. classes and relationships
- B. objects and messages
- C. subsystems and dependencies
- D. nodes and connectors

Correct Answer: D

QUESTION 25

Which artifact is used to describe use-case realizations?

- A. textual use-case descriptions
- B. communication diagrams
- C. state charts
- D. activity diagrams

Correct Answer: B

QUESTION 26

What defines a subsystems responsibilities?

- A. its internal class behavior
- B. the operations of the interfaces it implements
- C. the use-case realizations in which the subsystem appears
- D. the operations on a class contained within the subsystem

Correct Answer: B

QUESTION 27

Which is a design mechanism?

- A. Persistency
- B. ObjectStore Object-oriented Database
- C. Distribution
- D. Remote Method Invocation

Correct Answer: D

QUESTION 28

To begin identifying design mechanisms, you start by categorizing analysis mechanisms. What are three steps in the process of Categorizing Analysis Mechanisms? (Choose three.)

- A. identify characteristic profiles for each analysis mechanism
- B. identify the clients of each analysis mechanism
- C. assign a vendor implementation to each analysis mechanism
- D. group clients according to their use of characteristic profiles

Correct Answer: ABD

QUESTION 29

In Subsystem Design, what happens in the step, Distribute Subsystem Responsibilities?

- A. The subsystems responsibilities are allocated to its internal design elements.
- B. Each subsystem is checked to ensure it has a consistent set of responsibilities and inconsistent responsibilities are reassigned to other subsystems.
- C. Libraries and external APIs are identified to realize the subsystem behavior.
- D. Distribution mechanisms are detailed for exposing subsystem interfaces.

Correct Answer: A

QUESTION 30

Which entity has a well-defined boundary and identity that encapsulates state and behavior?

- A. class
- B. object
- C. component
- D. package

Correct Answer: B

QUESTION 31

What is the purpose of the Identify Design Mechanisms activity?

- A. to refine the analysis mechanisms and specify the exact implementation of the mechanism
- B. to provide a conceptual set of services that is used by analysis objects
- C. to refine analysis mechanisms into design mechanisms, based on the constraints imposed by the implementation environment
- D. to define design placeholders in the architecture so the architecting effort remains focused and is less likely to become sidetracked

Correct Answer: C

QUESTION 32

In a dependency, through what reference does the client class gain visibility to the supplier?

- A. local reference
- B. parameter reference
- C. global reference
- D. field reference

Correct Answer: ABC

QUESTION 33

In which Analysis and Design activity are subsystems mapped to analysis classes?

- A. Architectural Analysis

- B. Identify Design Elements
- C. Identify Subsystems
- D. Incorporate Existing Design Elements

Correct Answer: B

QUESTION 34

Which design element is used to represent a concurrent object?

- A. active class
- B. capsule
- C. design class
- D. event

Correct Answer: A

QUESTION 35

The Describe Distribution activity is where the processes defined in the Describe the Run-time Architecture activity are allocated to _____.

- A. physical nodes
- B. components
- C. classes
- D. activities

Correct Answer: A

QUESTION 36

During Subsystem Design, how many interaction diagrams (sequence or communication) should be created?

- A. at least one interaction diagram per interface operation
- B. one interaction diagram per interface realization
- C. at least one interaction diagram for each use of an external interface
- D. one interaction diagram for each realizing class

Correct Answer: A

QUESTION 37

A directed graph of nodes connected by transitions is a _____ diagram.

- A. communication
- B. sequence
- C. component
- D. state machine

Correct Answer: D

QUESTION 38

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

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

- G. state
- H. guard condition

Correct Answer: F

QUESTION 39

Use Case Design is part of which workflow detail?

- A. Design Use Cases
- B. Analyze Behavior
- C. Design Components
- D. Design Classes and Subsystems

Correct Answer: C

QUESTION 40

When does an analysis class map directly to a design class?

- A. when the analysis class uses the <entity> stereotype
- B. when the analysis class represents a single logical abstraction
- C. when the modeling tool supports transformation of Analysis Models to Design
- D. when an analyst has strong design skills

Correct Answer: B

QUESTION 41

What is a design subsystems primary purpose?

- A. provides configuration management and model organization
- B. encapsulates behavior
- C. packages similar design classes together
- D. represents external systems

Correct Answer: B

QUESTION 42

What is the purpose of subsystem design?

- A. finalizes the details of each interface implemented by the subsystems in an application
- B. breaks the system up into subsystems in order to allocate subsystems to development teams
- C. defines the behaviors specified in the subsystem's interfaces in terms of collaborations of contained design elements
- D. defines on which tier each subsystem will be implemented and the communication mechanisms used between them

Correct Answer: C

QUESTION 43

Click on the exhibit button. . In the diagram, what are C1 and C2?

- A. forks
- B. initial states
- C. decisions
- D. transitions
- E. final states
- F. events
- G. states

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