Identify Design Elements & Identify Design Mechanisms

Question 1. Analysis classes evolve into _____. (Choose two.)
A. design classes
B. subsystems
C. use-case realizations
D. design packages
E. architecture

Question 2. 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

Question 3. In the state of a state machine, a behavior can be defined _____. (Choose three)
A. before reaching a state
B. upon reaching a state
C. upon leaving a state
D. inside a state

Question 4. When identifying design elements, a simple analysis class will map to a(n)_____.
A. active class
B. interface
C. design class
D. subsystem

Question 5. In which OOAD activity is the distribution mechanism identified?
A. Identify Design Elements
B. Identify Design Mechanisms
C. Class Design
D. Architectural Analysis

Question 6. Identify Design Elements is part of which workflow detail?
A. Define a Candidate Architecture
B. Design Components
C. Perform Architectural Analysis
D. Refine the Architecture
Question 7. Which is an input artifact to the Identify Design Elements activity?  
A. Deployment Model  
B. Implementation Model  
C. Reference Architecture  
D. Software Architecture Document

Question 8. Which type of mechanism is a connector on a deployment diagram?  
A. backup  
B. communication  
C. transaction  
D. computation

Question 9. 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

Question 10. 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.

Question 11. Which is a design mechanism?  
A. Persistency  
B. ObjectStore Object-oriented Database  
C. Distribution  
D. Remote Method Invocation

Question 12. 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
Question 13. 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

Question 14. 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

Question 15. Which design element is used to represent a concurrent object?
A. active class
B. capsule
C. design class
D. event

Question 16. 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

Question 17. Which is an input artifact to the Identify Design Elements activity?
A. Deployment Model
B. Implementation Model
C. Reference Architecture
D. Software Architecture Document

Question 18. 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
Question 19. 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.

Question 20. In which OOAD activity is the distribution mechanism identified?
A. Identify Design Elements
B. Identify Design Mechanisms
C. Class Design
D. Architectural Analysis