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Grade	0 out of 50 (0%)

Question 1

Not answered

Mark 0 out of 1

Which of the following is a generic structure that is extended to create a more specific subsystem or application?

Select one:

- ☐ a. Object-oriented programming language
- ☐ b. none of the mentioned
- ☐ c. Framework
- ☐ d. Software reuse

The correct answer is: Framework

Question 2

Not answered

Mark 0 out of 1

Architecture once established can be applied to other products as well.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question 3

Not answered

Mark 0 out of 1

Which of the following is an essential principle of an architecture?

Select one:

- ☐ a. Consistency
- ☐ b. All of the mentioned
- ☐ c. Scalability
- ☐ d. Reliability

The correct answer is: All of the mentioned

Question 4

Not answered

Mark 0 out of 1

What translates a natural or an artificial language into another representation of that language and, for programming languages also execute the resulting code?

Select one:

- ☐ a. ERP systems
- ☐ b. Language processing systems
- ☐ c. none of the mentioned
- ☐ d. Transaction-based information systems

The correct answer is: Language processing systems

Question 5

Not answered

Mark 0 out of 1

Control systems may make use of the Environmental Control pattern, which is a general control pattern that includes _____processes.

Select one:

- ☐ a. Sensor
- ☐ b. actuator
- ☐ c. pipeline
- ☐ d. both sensor and actuator

The correct answer is: Sensor

Question 6

Not answered

Mark 0 out of 1

Which architecture are reliant on middle-ware?

Select one:

- ☐ a. Master-slave architecture
- ☐ b. Distributed component architecture
- ☐ c. Multi-tier client–server architecture
- ☐ d. Peer-to-peer architecture

The correct answer is: Distributed component architecture

Question 7

Not answered

Mark 0 out of 1

COTS product reuse means

Select one:

- ☐ a. Large-scale systems that encapsulate generic business functionality and rules are configured for an organization
- ☐ b. Shared components are woven into an application at different places when the program is compiled
- ☐ c. Systems are developed by configuring and integrating existing application systems
- ☐ d. Class and function libraries that implement commonly used abstractions are available for reuse

The correct answer is: Systems are developed by configuring and integrating existing application systems

Question 8

Not answered

Mark 0 out of 1

The UML was designed for describing

Select one:

- ☐ a. Both object-oriented systems and Architectural design
- ☐ b. object-oriented systems
- ☐ c. architectural design
- ☐ d. SRS

The correct answer is: Both object-oriented systems and Architectural design

Question 9

Not answered

Mark 0 out of 1

Which of the following view shows that the system is composed of interacting processes at run time?

Select one:

- ☐ a. development
- ☐ b. logical
- ☐ c. Physical
- ☐ d. process

The correct answer is: process

Question 10

Not answered

Mark 0 out of 1

Which of the following is an architectural conflict?

Select one:

- ☐ a. Localizing safety-related features usually means more communication so degraded performance
- ☐ b. Introducing redundant data improves availability but makes security more difficult
- ☐ c. Using large-grain components improves performance but reduces maintainability
- ☐ d. All of the mentioned

The correct answer is: All of the mentioned

Question 11

Not answered

Mark 0 out of 1

The MVC pattern was originally proposed in the 1980s as an approach to

Select one:

- ☐ a. Web application frameworks
- ☐ b. GUI design
- ☐ c. Web application frameworks
- ☐ d. Middleware integration frameworks

The correct answer is: GUI design

Question 12

Not answered

Mark 0 out of 1

Which of the following is not a real-time architectural pattern

Select one:

- ☐ a. Embedded System
- ☐ b. Observe and React
- ☐ c. Process Pipeline
- ☐ d. Environmental Control

The correct answer is: Embedded System

Question 13

Not answered

Mark 0 out of 1

A _____ view shows the system hardware and how software components are distributed across the processors in the system.

Select one:

- ☐ a. process
- ☐ b. logical
- ☐ c. Physical
- ☐ d. all of the mentioned

The correct answer is: Physical

Question 14

Not answered

Mark 0 out of 1

The open source movement has meant that there is a huge reusable code base available at

Select one:

- ☐ a. free of cost
- ☐ b. high cost
- ☐ c. low cost
- ☐ d. short period of time

The correct answer is: low cost

Question 15

Not answered

Mark 0 out of 1

What are generic application systems that may be designed to support a particular business type, activity, or sometimes a complete enterprise?

Select one:

- ☐ a. COTS-integrated systems
- ☐ b. Both COTS-solution and COTS-integrated systems
- ☐ c. ERP systems
- ☐ d. COTS-solution systems

The correct answer is: COTS-solution systems

Question 16

Not answered

Mark 0 out of 1

A monitoring system examines its environment through

Select one:

- ☐ a. none of the mentioned
- ☐ b. communication
- ☐ c. set of sensors
- ☐ d. operating system

The correct answer is: set of sensors

Question 17

Not answered

Mark 0 out of 1

consider the example and categorize it accordingly, "A pattern-matching system developed as part of a text-processing system may be reused in a database management system".

Select one:

- ☐ a. Component reuse
- ☐ b. None of the mentioned
- ☐ c. Application system reuse
- ☐ d. Object and function reuse

The correct answer is: Component reuse

Question 18

Not answered

Mark 0 out of 1

Which of the following is not real-time architectural patterns that are commonly used?

Select one:

- ☐ a. Process Pipeline
- ☐ b. Environmental Control
- ☐ c. Asynchronous communication
- ☐ d. observe and React

The correct answer is: Asynchronous communication

Question 19

Not answered

Mark 0 out of 1

RTOS stands for

Select one:

- ☐ a. real-time operating system
- ☐ b. real-life operating system
- ☐ c. real-life operating software
- ☐ d. real-time operating software

The correct answer is: real-life operating system

Question 20

Not answered

Mark 0 out of 1

Which of the following activities may be included in a real-time software design process?

Select one:

- ☐ a. Timing analysis
- ☐ b. Process design
- ☐ c. All of the mentioned
- ☐ d. Platform selection

The correct answer is: All of the mentioned

Question 21

Not answered

Mark 0 out of 1

Monitoring systems are an important class of embedded real-time systems.

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question 22

Not answered

Mark 0 out of 1

Which of the following term is best defined by the statement "In a distributed system, several processes may operate at the same time on separate computers on the network."?

Select one:

- ☐ a. Fault tolerance
- ☐ b. Resource sharing
- ☐ c. Concurrency
- ☐ d. Openness

The correct answer is: Concurrency

Question 23

Not answered

Mark 0 out of 1

Reuse-based software engineering is a software engineering strategy where the development process is geared to reusing existing software.

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question 24

Not answered

Mark 0 out of 1

Referring to the attached diagram, the arrow indicates:

Select one:

- ☐ a. Navigability
- ☐ b. Dependency
- ☐ c. Association
- ☐ d. Refers to

The correct answer is: Navigability

Question 25

Not answered

Mark 0 out of 1

Which of the following is not a dimension of scalability?

Select one:

- ☐ a. Interception اعتراض
- ☐ b. Distribution
- ☐ c. Size
- ☐ d. Manageability

The correct answer is:

Interception اعتراض

Question 26

Not answered

Mark 0 out of 1

Object oriented analysis and design can be handled by the one who knows UML.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question 27

Not answered

Mark 0 out of 1

Which of the following is not a benefit of software reuse?

Select one:

- ☐ a. maintaining a component library
- ☐ b. Increased Reliability
- ☐ c. Reduced Process risk
- ☐ d. Standards compliance

The correct answer is: Reduced Process risk

Question 28

Not answered

Mark 0 out of 1

QoS stands for

Select one:

- ☐ a. Quality of system
- ☐ b. Quality of security
- ☐ c. None of the mentioned
- ☐ d. Quality of service

The correct answer is: Quality of service

Question 29

Not answered

Mark 0 out of 1

Which of the following is applicable on software radio?

Select one:

- ☐ a. none of the mentioned
- ☐ b. Environmental Control
- ☐ c. Distributed system
- ☐ d. Process Pipeline

The correct answer is: Process Pipeline

Question 30

Not answered

Mark 0 out of 1

Which architecture decentralized architectures in which there are no distinguished clients and servers?

Select one:

- ☐ a. Distributed component architecture
- ☐ b. Master-slave architecture
- ☐ c. Peer-to-peer architecture
- ☐ d. Multi-tier client-server architecture

The correct answer is: Peer-to-peer architecture

Question 31

Not answered

Mark 0 out of 1

Which of the following is/are commonly used architectural pattern(s)?

Select one:

- ☐ a. Layered Architecture
- ☐ b. Client–server
- ☐ c. Model-View-Controller
- ☐ d. All of the mentioned

The correct answer is: All of the mentioned

Question 32

Not answered

Mark 0 out of 1

Which of the following is not an advantages of software reuse?

Select one:

- ☐ a. faster software development
- ☐ b. lower risks
- ☐ c. high effectiveness
- ☐ d. Lower costs

The correct answer is: high effectiveness

Question 33

Not answered

Mark 0 out of 1

Architectural design is a creative process satisfying only functional-requirements of a system.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question 34

Not answered

Mark 0 out of 1

Systems that involve interaction with a shared database can be considered as.

Select one:

- ☐ a. client-based
- ☐ b. server-based
- ☐ c. transaction-based
- ☐ d. software-based

The correct answer is: transaction-based

Question 35

Not answered

Mark 0 out of 1

Which of the following is a type of Architectural Model?

Select one:

- ☐ a. All of the mentioned
- ☐ b. Dynamic process model
- ☐ c. Static structural model
- ☐ d. Distribution model

The correct answer is: All of the mentioned

Question 36

Not answered

Mark 0 out of 1

Frameworks are an effective approach to reuse, but are _____ to introduce into software development processes.

Select one:

- ☐ a. expensive
- ☐ b. unreliable
- ☐ c. difficult and expensive
- ☐ d. Difficult

The correct answer is: difficult and expensive

Question 37

Not answered

Mark 0 out of 1

Which of the following pattern is the basis of interaction management in many web-based systems?

Select one:

- ☐ a. different operating system
- ☐ b. model-view-controller
- ☐ c. Architecture
- ☐ d. repository pattern

The correct answer is: model-view-controller

Question 38

Not answered

Mark 0 out of 1

Which architecture is used when there is a high volume of transactions to be processed by the server?

Select one:

- ☐ a. Master-slave architecture
- ☐ b. Distributed component architecture
- ☐ c. Multi-tier client-server architecture
- ☐ d. Peer-to-peer architecture

The correct answer is: Multi-tier client-server architecture

Question 39

Not answered

Mark 0 out of 1

Which of the following is not included in Architectural design decisions?

Select one:

- ☐ a. architectural styles
- ☐ b. testing the system
- ☐ c. distribution of the system
- ☐ d. Type of application

The correct answer is: testing the system

Question 40

Not answered

Mark 0 out of 1

Transaction processing systems may be organized as a _____ architecture with system components responsible for input, processing, and output.

Select one:

- ☐ a. Repository
- ☐ b. none of the mentioned
- ☐ c. Client–server
- ☐ d. Model-View-Controller

The correct answer is: none of the mentioned

Question 41

Not answered

Mark 0 out of 1

Which of these following sensor is a useful as part of a burglar alarm system for commercial buildings?

Select one:

- ☐ a. Window sensor
- ☐ b. Movement detector
- ☐ c. All of the mentioned
- ☐ d. Door sensor

The correct answer is: All of the mentioned

Question 42

Not answered

Mark 0 out of 1

Which of the following is a category of a stimuli?

Select one:

- ☐ a. Management stimuli
- ☐ b. Periodic stimuli
- ☐ c. Hardware stimuli
- ☐ d. Software stimuli

The correct answer is: Periodic stimuli

Question 43

Not answered

Mark 0 out of 1

Properties of a system such as performance and security are independent of the architecture used.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question 44

Not answered

Mark 0 out of 1

Which framework class include standards and classes that support component communication and information exchange?

Select one:

- ☐ a. MVC
- ☐ b. Enterprise application frameworks
- ☐ c. Middleware integration frameworks
- ☐ d. System infrastructure frameworks

The correct answer is: Middleware integration frameworks

Question 45

Not answered

Mark 0 out of 1

Which of the following type describes application architectures?

Select one:

- ☐ a. Client management systems
- ☐ b. Transaction processing applications
- ☐ c. Transaction processing applications and Language processing systems
- ☐ d. Language processing systems

The correct answer is: Transaction processing applications and Language processing systems

Question 46

Not answered

Mark 0 out of 1

What describes how a set of interacting components can share data?

Select one:

- ☐ a. none of the mentioned
- ☐ b. architecture pattern
- ☐ c. model-view-controller
- ☐ d. repository pattern

The correct answer is: repository pattern

Question 47

Not answered

Mark 0 out of 1

COTS stands for

Select one:

- ☐ a. Commercial Off-The-System state
- ☐ b. Commercial Off-The-Shelf states
- ☐ c. Commercial Off-The-Shelf systems
- ☐ d. None of the mentioned

The correct answer is: None of the mentioned

Question 48

Not answered

Mark 0 out of 1

Reuse-based software engineering is a software engineering strategy where the development process is geared to reusing existing software.

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question 49

Not answered

Mark 0 out of 1

Which view in architectural design shows the key abstractions in the system as objects or object classes?

Select one:

- ☐ a. development
- ☐ b. Physical
- ☐ c. logical
- ☐ d. process

The correct answer is: logical

Question 50

Not answered

Mark 0 out of 1

ERP stands for

Select one:

- ☐ a. Effective Reuse Planning
- ☐ b. Enterprise Resource Planning
- ☐ c. Effective Research Planning
- ☐ d. none of the mentioned

The correct answer is: Enterprise Resource Planning

