

Time left 0:14:45

**Question 1**

Not yet answered

Marked out of 1.00

Which metric measures the number of independent paths in a program?

- ☐ a. Code Churn
- ☐ b. Function Point
- ☐ c. Halstead Complexity
- ☐ d. Cyclomatic Complexity

**Question 2**

Not yet answered

Marked out of 1.00

Which testing level validates the interaction between integrated modules?

- ☐ a. System Testing
- ☐ b. Unit Testing
- ☐ c. Integration Testing
- ☐ d. Acceptance Testing

**Question 3**

Not yet answered

Marked out of 1.00

The primary objective of Risk Assessment is to:

- ☐ a. Estimate probability and impact of risks
- ☐ b. Reduce cost overruns
- ☐ c. Eliminate all risks
- ☐ d. Improve software quality

**Question 4**

Not yet answered

Marked out of 1.00

Which of the following is NOT a functional requirement?

- ☐ a. User login
- ☐ b. System response time
- ☐ c. File upload functionality
- ☐ d. Payment processing

**Question 5**

Not yet answered

Marked out of 1.00

A use-case includes which of the following?

- ☐ a. Data flow diagrams
- ☐ b. Business contracts
- ☐ c. Interaction between actor and system
- ☐ d. Implementation steps

**Question 6**

Not yet answered

Marked out of 1.00

The primary output of requirement elicitation is:

- ☐ a. Vision Document
- ☐ b. Test Plan
- ☐ c. SRS
- ☐ d. UML Diagrams

**Question 7**

Not yet answered

Marked out of 1.00

Which UML diagram is used to represent interactions between objects over time?

- ☐ a. Class Diagram
- ☐ b. Activity Diagram
- ☐ c. Sequence Diagram
- ☐ d. Component Diagram

**Question 8**

Not yet answered

Marked out of 1.00

The Dependency Inversion Principle belongs to which design concept?

- ☐ a. Architectural Patterns
- ☐ b. SOLID Principles
- ☐ c. Structured Design
- ☐ d. Procedural Abstraction

**Question 9**

Not yet answered

Marked out of 1.00

Which of the following is considered an upper-CASE tool?

- ☐ a. Debugger
- ☐ b. Code generator
- ☐ c. Test execution tool
- ☐ d. Requirement analysis tool

**Question 10**

Not yet answered

Marked out of 1.00

A key characteristic of DevOps is:

- ☐ a. Manual deployments
- ☐ b. Collaboration between development and operations
- ☐ c. No need for testing
- ☐ d. Large release cycles

**Question 11**

Not yet answered

Marked out of 1.00

The main challenge in distributed software development is:

- ☐ a. Time zone differences and communication gaps
- ☐ b. Lower cost
- ☐ c. No need for documentation
- ☐ d. Better testing

**Question 12**

Not yet answered

Marked out of 1.00

In Agile, the product backlog is primarily owned by:

- ☐ a. Scrum Master
- ☐ b. Development Team
- ☐ c. Product Owner
- ☐ d. Project Manager

**Question 13**

Not yet answered

Marked out of 1.00

Which SDLC model is most suitable when requirements are unclear and likely to evolve?

- ☐ a. Waterfall
- ☐ b. Big-Bang Model
- ☐ c. Spiral Model
- ☐ d. V-Model

**Question 14**

Not yet answered

Marked out of 1.00

The main purpose of software architecture design is to:

- ☐ a. Provide high-level structure of the system
- ☐ b. Document user requirements
- ☐ c. Create test plans
- ☐ d. Define coding standards

**Question 15**

Not yet answered

Marked out of 1.00

In Software Architecture, the layered architecture style provides:

- ☐ a. Well-defined separation of concerns
- ☐ b. No reusability
- ☐ c. Fast performance
- ☐ d. High coupling

**Question 16**

Not yet answered

Marked out of 1.00

Which estimation technique relies heavily on historical project data?

- ☐ a. Expert Judgment
- ☐ b. Function Point Method
- ☐ c. Algorithmic Model
- ☐ d. Delphi Technique

**Question 17**

Not yet answered

Marked out of 1.00

A white-box testing technique is:

- ☐ a. System Testing
- ☐ b. Regression Testing
- ☐ c. Control Flow Testing
- ☐ d. Beta Testing

**Question 18**

Not yet answered

Marked out of 1.00

Refactoring in software engineering primarily focuses on:

- ☐ a. Improving internal code structure without changing behavior
- ☐ b. Removing unused code
- ☐ c. Adding new features
- ☐ d. Debugging the system

**Question 19**

Not yet answered

Marked out of 1.00

In Requirement Engineering, which activity checks whether requirements are complete, consistent, and testable?

- ☐ a. Requirement Analysis
- ☐ b. Requirement Documentation
- ☐ c. Requirement Validation
- ☐ d. Requirement Elicitation

**Question 20**

Not yet answered

Marked out of 1.00

Which design pattern ensures a class has only one instance and provides global access to it?

- ☐ a. Builder Pattern
- ☐ b. Factory Pattern
- ☐ c. Adapter Pattern
- ☐ d. Singleton Pattern

**Question 21**

Not yet answered

Marked out of 1.00

The main advantage of the Incremental Model is:

- ☐ a. No need for requirement analysis
- ☐ b. Zero risk
- ☐ c. Low cost always
- ☐ d. Early delivery of working software

**Question 22**

Not yet answered

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In project scheduling, the critical path determines:

- ☐ a. Tasks that have slack
- ☐ b. Tasks with maximum cost
- ☐ c. Tasks that must run in parallel
- ☐ d. Minimum time needed to complete the project

**Question 23**

Not yet answered

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In the Spiral Model, each loop of the spiral represents:

- ☐ a. A risk-driven phase
- ☐ b. A prototype
- ☐ c. A complete product
- ☐ d. A sprint

**Question 24**

Not yet answered

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Which test technique involves dividing input data into partitions to reduce number of test cases?

- ☐ a. Mutation Testing
- ☐ b. Equivalence Partitioning
- ☐ c. Decision Table Testing
- ☐ d. Boundary Value Analysis

**Question 25**

Not yet answered

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CMMI Level 3 is best described as:

- ☐ a. Processes are standardized and defined
- ☐ b. Processes are quantitatively controlled
- ☐ c. Processes are optimized
- ☐ d. Processes are documented

**Question 26**

Not yet answered

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Which of the following is NOT a principle of Agile Manifesto?

- ☐ a. Welcome changing requirements
- ☐ b. Simplicity is essential
- ☐ c. Deliver working software frequently
- ☐ d. Contract negotiation over customer collaboration

**Question 27**

Not yet answered

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Which maintenance activity involves modifying the software to prevent future issues?

- ☐ a. Perfective Maintenance
- ☐ b. Adaptive Maintenance
- ☐ c. Preventive Maintenance
- ☐ d. Corrective Maintenance

**Question 28**

Not yet answered

Marked out of 1.00

Regression testing ensures that:

- ☐ a. Changes have not broken existing functionality
- ☐ b. New modules work correctly
- ☐ c. The entire software is bug-free
- ☐ d. System meets user requirements

**Question 29**

Not yet answered

Marked out of 1.00

In COCOMO II, which factor influences the scale exponent the most?

- ☐ a. Complexity
- ☐ b. Size of code
- ☐ c. Team Cohesion
- ☐ d. Product Reliability

**Question 30**

Not yet answered

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ISO 9126 quality model does NOT include:

- ☐ a. Functionality
- ☐ b. Profitability
- ☐ c. Maintainability
- ☐ d. Portability