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Status	Finished
Started	Sunday, 15 September 2024, 6:15 PM
Completed	Sunday, 15 September 2024, 6:32 PM
Duration	17 mins 39 secs
Marks	25.00/25.00
Grade	5.00 out of 5.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

Which of the following is NOT a typical component of a test case?

- ☐ a. A) Test Case ID
- ☒ b. C) Test Execution Time ✓
- ☐ c. B) Test Data
- ☐ d. D) Expected Result



Your answer is correct.

The correct answer is:

C) Test Execution Time

Question 2

Correct

Mark 1.00 out of
1.00

Which of the following best describes ITIL (Information Technology Infrastructure Library)?

- ☐ a. A) A set of guidelines for software development methodologies
- ☐ b. D) A software development life cycle model
- ☐ c. C) A programming language used for software testing
- ☒ d. B) A framework for managing IT services and aligning them with business needs ✓

Your answer is correct.

The correct answer is:

B) A framework for managing IT services and aligning them with business needs

Question 3

Correct

Mark 1.00 out of
1.00

ISO 9001 is best known for:

- ☐ a. B) IT service management
- ☒ b. C) General quality management standards applicable to any industry ✓
- ☐ c. D) Specific software engineering practices
- ☐ d. A) Software testing standards



Your answer is correct.

The correct answer is:

C) General quality management standards applicable to any industry

Question 4

Correct

Mark 1.00 out of
1.00

Equivalence partitioning is a technique used in

- ☐ a. B) Load testing
- ☐ b. A) White-box testing
- ☐ c. D) Usability testing
- ☒ d. C) Black-box testing ✓

Your answer is correct.

The correct answer is:

C) Black-box testing

Question 5

Correct

Mark 1.00 out of
1.00

In software testing, which of the following statements is true?



- ☐ a. C) Testing is only necessary after the software has been fully developed.
- ☐ b. D) Testing and debugging are the same activities.
- ☐ c. A) Testing can prove that a software application is defect-free.
- ☒ d. B) Testing aims to find as many defects as possible before the software is released. ✓

Your answer is correct.

The correct answer is:

B) Testing aims to find as many defects as possible before the software is released.

Question 6

Correct

Mark 1.00 out of
1.00

Which of the following software quality models is based on the concept of "Quality in Use"?

- ☐ a. C) Boehm's Quality Model
- ☒ b. B) ISO/IEC 9126 Model ✓
- ☐ c. D) FURPS Model
- ☐ d. A) McCall's Quality Model

Your answer is correct.

The correct answer is:

B) ISO/IEC 9126 Model

Question 7

Correct

Mark 1.00 out of
1.00

Black-box testing focuses on:



- ☐ a. D) The adherence of the software to coding standards
- ☐ b. C) The performance and load handling of the software
- ☐ c. A) The internal logic and structure of the code
- ☒ d. B) The inputs and outputs of the software ✓

Your answer is correct.

The correct answer is:

B) The inputs and outputs of the software

Question 8

Correct

Mark 1.00 out of
1.00

Maintainability in software refers to:

- ☒ a. B) The ease with which software can be modified to correct defects, improve performance, or adapt to a changed environment ✓
- ☐ b.) The speed at which the software performs its functions
- ☐ c. A) The software's ability to handle errors and exceptions effectively
- ☐ d. D) The consistency of the software's performance across different platforms

Your answer is correct.

The correct answer is:

B) The ease with which software can be modified to correct defects, improve performance, or adapt to a changed environment

Question 9

Correct

Mark 1.00 out of
1.00

Alpha testing is typically performed:

- ☐ a. D) By automated tools in a testing environment
- ☐ b. B) By a select group of external users
- ☐ c. A) By end-users in a production environment
- ☒ d. C) By the internal development team to identify bugs before beta testing ✓

Your answer is correct.

The correct answer is:

C) By the internal development team to identify bugs before beta testing

Question 10

Correct

Mark 1.00 out of 1.00

Integration testing primarily focuses on

- ☐ a. A) Testing individual functions or units of code
- ☐ b. D) Testing the overall performance of the software
- ☒ c. B) Testing how different software modules interact with each other ✓
- ☐ d. C) Testing the software's usability and user interface

Your answer is correct.

The correct answer is:

B) Testing how different software modules interact with each other

Question 11

Correct

Mark 1.00 out of 1.00

What does CMMI stand for in the context of software development and quality assurance?

- ☐ a. D) Comprehensive Maturity Model Initiative
- ☒ b. A) Capability Maturity Model Integration ✓
- ☐ c. C) Critical Management and Methodology Integration
- ☐ d. B) Continuous Maturity Model Implementation



Your answer is correct.

The correct answer is:

A) Capability Maturity Model Integration

Question 12

Correct

Mark 1.00 out of 1.00

What is the primary difference between Quality Assurance (QA) and Quality Control (QC)?

- ☐ a. B) QA involves software testing, while QC involves process improvement.
- ☒ b. A) QA focuses on preventing defects, while QC focuses on identifying defects. ✓
- ☐ c. D) QA and QC are interchangeable terms and refer to the same activities.
- ☐ d. C) QA is a reactive process, while QC is proactive.

Your answer is correct.

The correct answer is: A) QA focuses on preventing defects, while QC focuses on identifying defects.

Question 13

Correct

Mark 1.00 out of 1.00

Which of the following statements accurately describes the relationship between a defect, an error, and a failure in software quality assurance?

- ☐ a. B) A defect is an error in the software that does not always lead to a failure.
- ☒ b. D) All of the above statements accurately describe the relationship. ✓
- ☐ c. C) A failure occurs when a defect causes the software to behave incorrectly or unexpectedly.
- ☐ d. A) An error is a defect in the code that results in a failure during execution.



Your answer is correct.

The correct answer is:

D) All of the above statements accurately describe the relationship.

Question 14

Correct

Mark 1.00 out of
1.00

Which of the following best describes "reliability" in the context of software quality?

- ☐ a. D) The extent to which the software meets the requirements specified by the stakeholders
- ☐ b. C) The ability of the software to be modified or extended with minimal impact
- ☒ c. A) The ability of the software to perform its intended functions consistently over time ✓
- ☐ d. B) The ease with which a user can understand and use the software

Your answer is correct.

The correct answer is:

A) The ability of the software to perform its intended functions consistently over time

Question 15

Correct

Mark 1.00 out of
1.00

Which model focuses on the "Maintainability" and "Portability" of software as key quality attributes?

A) McCall's Quality Model



- ☐ a. D) FURPS
- ☐ b. B) Boehm's Quality Model
- ☒ c. A) McCall's Quality Model ✓
- ☐ d. C) ISO/IEC 9126

Your answer is correct.

The correct answer is:

A) McCall's Quality Model

Question 16

Correct

Mark 1.00 out of 1.00

In which phase of the software development life cycle (SDLC) does Software Quality Assurance (SQA) primarily ensure that the software requirements are met?

- ☐ a. C) Testing Phase
- ☐ b. A) Design Phase
- ☒ c. D) Requirements Phase ✓
- ☐ d. B) Development Phase

Your answer is correct.

The correct answer is:

D) Requirements Phase

Question 17

Correct

Mark 1.00 out of 1.00

System testing involves:



- ☐ a. D) Testing the software's ability to recover from failures
- ☐ b. C) Testing the software in a real-world environment
- ☐ c. A) Testing the performance of individual components
- ☒ d. B) Testing the complete and integrated software system as a whole ✓

Your answer is correct.

The correct answer is:

B) Testing the complete and integrated software system as a whole

Question 18

Correct

Mark 1.00 out of 1.00

In test case design, which technique involves creating test cases based on the expected behavior of the software rather than its implementation details?

- ☐ a. B) Equivalence Partitioning
- ☒ b. D) Black-Box Testing ✓
- ☐ c. A) Boundary Value Analysis
- ☐ d. C) Exploratory Testing

Your answer is correct.

The correct answer is:

D) Black-Box Testing

Question 19

Correct

Mark 1.00 out of 1.00

Which of the following is NOT considered a quality factor in the FURPS model?



- ☐ a. A) Functionality
- ☒ b. D) Cost-effectiveness ✓
- ☐ c. B) Usability
- ☐ d. C) Reliability

Your answer is correct.

The correct answer is:

D) Cost-effectiveness

Question 20

Correct

Mark 1.00 out of
1.00

White-box testing is best described as:

- ☐ a. D) Testing only the interface between integrated systems
- ☐ b. C) Testing from an end-user perspective
- ☐ c. A) Testing based on the software's functional requirements
- ☒ d. B) Testing based on the internal structure and logic of the software ✓

Your answer is correct.

The correct answer is:

B) Testing based on the internal structure and logic of the software

Question 21

Correct

Mark 1.00 out of
1.00

Automated testing is best described as

- ☐ a. A) Testing performed manually by the tester
- ☒ b. B) Using specialized tools to execute test cases and compare results ✓
- ☐ c. D) Testing focused on user experience and usability
- ☐ d. C) Testing performed by end-users in a production environment



Your answer is correct.

The correct answer is:

B) Using specialized tools to execute test cases and compare results

Question 22

Correct

Mark 1.00 out of
1.00

Which of the following is a key focus of usability in software quality?

- ☐ a. D) The efficiency of the software's algorithms
- ☒ b. C) The ease with which end-users can learn and operate the software ✓
- ☐ c. A) The software's ability to recover from failures
- ☐ d. B) The software's performance under varying loads

Your answer is correct.

The correct answer is:

C) The ease with which end-users can learn and operate the software

Question 23

Correct

Mark 1.00 out of
1.00

Boundary value analysis is a testing technique that focuses on:

- ☐ a. C) Testing the software under extreme condition
- ☐ b. D) Testing random values within a given range
- ☒ c. A) Testing values at the edge of input ranges ✓
- ☐ d. B) Testing equivalent classes of inputs



Your answer is correct.

The correct answer is:

A) Testing values at the edge of input ranges

Question 24

Correct

Mark 1.00 out of
1.00

The test execution process includes:

- ☒ a. D) All of the above ✓
- ☐ b. A) Creating test plans and defining test strategies
- ☐ c. B) Executing the test cases and logging the results
- ☐ d. C) Identifying and reporting defects

Your answer is correct.

The correct answer is:

D) All of the above

Question 25

Correct

Mark 1.00 out of
1.00

Unit testing involves:

- ☐ a. A) Testing the integration of multiple units or components
- ☐ b. D) Testing how the software behaves under load
- ☒ c. B) Testing individual components or functions in isolation ✓
- ☐ d. C) Testing the entire system as a whole

Your answer is correct.

The correct answer is:

B) Testing individual components or functions in isolation

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