

ISTQB

Exam Questions CTFL-Foundation

Certified Tester Foundation Level



NEW QUESTION 1

Since the system is in the medical domain and therefore in the safety critical area, testing needs to be rigorous and evidence is required that the system has been adequately tested. Identify THREE measures that would typically be part of the test approach in this domain and which are not always applicable in other domains! 1 credit

- A. High level of documentation
- B. Failure Mode and Effect Analysis (FMEA) sessions
- C. Traceability to requirements
- D. Non-functional testing
- E. Master test planning
- F. Test design techniques
- G. Reviews

Answer: ABC

NEW QUESTION 2

Consider the typical objectives of testing. Which of the following metrics can be used to measure the effectiveness of the testing process in achieving one of those objectives? 1 credit

- A. Average number of days between defect discovery and resolution
- B. Percentage of requirements covered
- C. Lines of code written per developer per day
- D. Percentage of test effort spent on regression testing

Answer: B

NEW QUESTION 3

You are about to release a test progress report to a senior manager, who is not a test specialist. Which of the following topics should NOT be included in the test progress report? 1 credit

- A. Product risks which have been mitigated and those which are outstanding.
- B. Recommendations for taking controlling actions
- C. Status compared against the started exit criteria
- D. Detailed overview of the risk-based test approach being used to ensure the exit criteria to be achieved

Answer: D

NEW QUESTION 4

Explain how the above mentioned report may differ from a report that you produce for the project manager, who is a test specialist Select TWO items from the following options that can be used to report to the project manager and would not be included in a report to senior management. 1 credit

- A. Show details on effort spent
- B. List of all outstanding defects with their priority and severity
- C. Give product risk status
- D. Show trend analysis
- E. State recommendations for release

Answer: AB

NEW QUESTION 5

The introduction of reviews and inspections has often failed as a process improvement action. Identify the THREE most important measures that should be taken to reduce the risk that this test process improvement will fail. 2 Credits (for 2 out correct 1 credit)

- A. Process ownership and experienced moderators who drive the inspection process.
- B. Management support
- C. Training of those involved
- D. The availability of stands and processes
- E. Usage of a more traditional software development lifecycle
- F. Alignment with software process improvement
- G. Using a reference model, e.
- H. TMMi

Answer: ABC

NEW QUESTION 6

As part of the improvement program, the organization is also looking at tool support. Which type of tool could be used to ensure higher quality of the code to be reviewed? 1 credit

- A. Review tool
- B. Test execution tool
- C. Static analysis tool
- D. Test design tool

Answer: C

NEW QUESTION 7

Which of the following would you least expect to form part of the analysis of initial tool costs? 1 credit

- A. Integration with other tools
- B. Learning time required to use the new tool
- C. Tool portability
- D. Evaluation of suitable tools

Answer: C

NEW QUESTION 8

Select THREE issues from the options provided that should at least be raised. 1 credit

- A. Has there been sufficient comparison of tools?
- B. What are the problems we are trying to address?
- C. Do we have a set of tool requirements to validate the tool against?
- D. How will the implementation be organized?
- E. Which project will be selected to perform the tool pilot?
- F. Is customized training available?
- G. How will the change process be managed?

Answer: ABC

NEW QUESTION 9

Which of the following would be the TWO most appropriate examples of entry criteria documented in the system integration test plan? 2 credits

- A. The percentage of decision coverage achieved during unit testing.
- B. The availability of the latest version of the capture-replay tool (for testing the interface with the newly developed test management tool).
- C. The sign-off of a performance test software release note (test item transmittal report) by both development and testing showing that system performance meets the specified acceptance criteria.
- D. The percentage of acceptance test procedures scheduled for execution.
- E. The percentage of requirements coverage achieved during system integration tes

Answer: AB

NEW QUESTION 10

Which of the following is a project risk mitigation step you might take as test manager? 1 credit

- A. Testing for performance problems
- B. Hiring a contractor after a test analyst leaves the company
- C. Arranging a back-up test environment in case the existing one fails during testing
- D. Performing a project retrospective meeting using the test results after each increment

Answer: C

NEW QUESTION 10

Which of the following is least likely to be used as a technique to identify project and product risks? 1 credit

- A. Brainstorming
- B. Inspections
- C. Expert interviews
- D. Independent assessments

Answer: B

NEW QUESTION 14

Part of the testing strategy indicates that you are going to be using systematic test design techniques. Your manager has asked that you present the main advantages of using these techniques at the next board meeting. Identify THREE main benefits of using systematic test design techniques within this company. 2 credits (for 2 out correct 1 credit)

- A. Easier to quickly adapt testing to changing requirements compared to experienced-based testing
- B. Targets certain types of faults
- C. Will guide experienced testers to find defects
- D. Provides a way to differentiate depth of testing based on product risks by using different techniques
- E. More enhanced documentation and therefore higher repeatability and reproducibility
- F. Will make non-systematic testing redundant
- G. Will reduce the need for early reviews

Answer: BDE

NEW QUESTION 18

You have been asked to write a testing strategy for the company. Which statement best explains how risk can be addressed within the testing strategy? 1 credit

- A. A test strategy should address identified generic product risks and present a process for mitigating those risks in line with the testing policy.
- B. A test strategy identifies the specific product for a project risk and defines the approach for the test project.
- C. A test strategy is derived from the test policy and describes the way risk assessments are performed in projects.
- D. A test strategy is the result of a project risk analysis and defines the approach and resources for testin

Answer: A

NEW QUESTION 19

In addition to risk, identify TWO other components of a testing strategy. 1 credit

- A. The entry and exit criteria for each test phase
- B. Test training needs for the project resources
- C. The test design techniques to be used
- D. Test performance indicators
- E. The test schedule

Answer: AC

NEW QUESTION 20

What is the Risk Priority Number for risk item number 2? 2 credits

- A. 16
- B. 2
- C. 1
- D. 63

Answer: D

NEW QUESTION 23

Which of the following is a benefit of independent testing? 1 credit

- A. Code cannot be released into production until independent testing is complete.
- B. Testing is isolated from development.
- C. Independent testers find different defects and are unbiased.
- D. Developers do not have to take as much responsibility for quality

Answer: C

NEW QUESTION 25

Based on the information given in the scenario, identify how the team could be improved most effectively? 2 credits

- A. By providing training in the payroll domain
- B. By providing a workshop on test design techniques
- C. By providing specific training on the systems being tested
- D. By providing training on reviewing requirements

Answer: B

NEW QUESTION 30

In general which part of the testing activity is most difficult to estimate? 1 credit

- A. Test planning
- B. Test execution
- C. Test management
- D. Test design

Answer: B

NEW QUESTION 35

The test improvement project will take place in an organization developing a safety-critical avionics application. Which one of the following standards do you believe would be most appropriate to take into account for compliance during your assignment? 1 credit

- A. ISO 9126
- B. IEEE 829
- C. BS 7925/2
- D. DO-178B

Answer: D

NEW QUESTION 36

Which of the following phases in the fundamental test process is considered to deliver a document which can be used as a major input for test process improvement? 1 credit

- A. Test planning and control
- B. Test implementation & execution
- C. Evaluating exit criteria and reporting
- D. Test project closure

Answer: D

NEW QUESTION 38

Within the projects, a master test plan and phase test plan will be used. Following is a list of characteristics applicable for test plans:

- A. Any deviation from the procedures described in the test strategy document
 - B. The overall estimated costs, timescales and resource requirements
 - C. A detailed schedule of testing activities
 - D. The development deliverables to be tested
 - E. Which test staff members (names) will be involved and when
 - F. Level of requirements coverage achieved
- Which THREE of the above mentioned characteristics relate to the master test plan? 1 credit
- G. a
 - H. b
 - I. c
 - J. d
 - K. e
 - L. f

Answer: ABD

NEW QUESTION 43

As part of the test strategy, entry and exit criteria will be defined for each test level. Which is NOT a valid reason for using entry and exit criteria? 1 credit

- A. The expectation is that development testing is not adequate.
- B. Exit criteria are used to decide on when to stop testing.
- C. Entry and exit criteria are a principal way for getting adequate resources.
- D. Using entry and exit criteria will prevent software that is not or poorly tested from going to the next test level

Answer: C

NEW QUESTION 47

Which of the following product risks would be most effectively addressed just by static testing? 3 credits

- A. In the delivered application, one of the countries, as specified in the requirements, has not been correctly implemented.
- B. The application takes too long to process a request for additional cover.
- C. The test cases do not cover the key requirements.
- D. The successful bidder may not deliver all the required functionality on time

Answer: C

NEW QUESTION 48

Which one of the following estimation approaches is appropriate at this stage of the project? 2 credits

- A. Create an estimate based on the function point analysis technique and test point analysis
- B. Create an estimate based on the complexity of the code
- C. Create an estimate based on the credentials of the successful bidder
- D. Create an estimate based on a percentage of the development effort

Answer: A

NEW QUESTION 50

The business has asked for a weekly progress report. Which of the following would be appropriate as a measure of test coverage? 2 credits

- A. Percentage of business requirements exercised
- B. Percentage of planned hours worked this week
- C. Percentage of countries that have test scenarios
- D. Percentage of test iterations completed

Answer: A

NEW QUESTION 53

Which of the following is NOT a typical key challenge for testing in a RAD based development approach? 1 credit

- A. Re-usable test scripts for (automated) regression testing
- B. Project management and control
- C. No complete requirements specification
- D. Time-boxing

Answer: B

NEW QUESTION 58

The effect of testing is to:

- A. Increase software quality;
- B. Give an indication of the software quality;
- C. Enable those responsible for software failures to be identified;
- D. Show there are no problems remaining?

Answer:

B

NEW QUESTION 61

Which of the following statements describes a key principle of software testing?

- A. Automated tests allow better statements of confidence about the quality of software products.
- B. For a software system, it is normally impossible to test all the input and output combinations.
- C. Exhaustive software testing is, with enough effort and tool support, feasible for all software.
- D. The purpose of software testing is demonstrating the absence of defects in software product

Answer: B

NEW QUESTION 65

Which of the following is a structure-based (white-box) technique?

- A. Decision table testing
- B. State transition testing
- C. Statement testing
- D. Boundary value analysis

Answer: C

Explanation:

All other options are specification-based (black-box) techniques, and the main distracter is answer (A) because decision table testing could be confused with decision testing.

NEW QUESTION 70

The cost of fixing a fault:

- A. Is not important
- B. Increases as we move the product towards live use
- C. Decreases as we move the product towards live use
- D. Is more expensive if found in requirements than functional design
- E. Can never be determined

Answer: B

NEW QUESTION 73

Which is not a major task of test implementation and execution?

- A. Develop and prioritizing test cases, creating test data, writing test procedures and optionally, preparing test harness and writing automated test scripts.
- B. Logging the outcome of test execution and recording the identities and versions of the software under test, test tools and test ware.
- C. Checking test logs against the exit criteria specified in test planning.
- D. Verifying that the test environment has been set up correctl

Answer: B

NEW QUESTION 75

Which of the following is the odd one out..?

- A. White box
- B. Glass box
- C. Structural
- D. Functional

Answer: D

NEW QUESTION 79

A tool that supports traceability, recording of incidents or scheduling of tests is called..?

- A. A dynamic analysis tool
- B. A test execution tool
- C. A debugging tool
- D. A test management tool
- E. A configuration management tool

Answer: D

NEW QUESTION 80

According to the ISTQB Glossary, regression testing is required for what purpose?

- A. To verify the success of corrective actions.
- B. To prevent a task from being incorrectly considered completed.
- C. To ensure that defects have not been introduced by a modification.
- D. To motivate better unit testing by the programmer

Answer: C

NEW QUESTION 83

How many test cases are necessary to cover all the possible sequences of statements (paths) for the following program fragment?

Assume that the two conditions are independent of each other : -if (Condition 1)then statement 1else statement 2if (Condition 2)then statement 3

- A. 2 Test Cases
- B. 3 Test Cases
- C. 4 Test Cases
- D. Not achievable

Answer: A

NEW QUESTION 87

What is the benefit of independent testing?

- A. More work gets done because testers do not disturb the developers all the time.
- B. Independent testers tend to be unbiased and find different defects than the developers
- C. Independent testers do not need extra education and training.
- D. Independent testers reduce the bottleneck in the incident management proces

Answer: B

NEW QUESTION 88

Which of the following are most characteristic of structure-based testing?

- (i) Information about how the software is constructed is used to derive test cases.
- (ii) Statement coverage and/or decision coverage can be measured for existing test cases.
- (iii) The knowledge and experience of people are used to derive test cases.
- (iv) Test cases are derived from a model or specification of the system.

- A. (i) and (ii)
- B. (ii) and (iii)
- C. (ii) and (iv)
- D. (i) and (iii)

Answer: A

NEW QUESTION 89

Which is not a major task of test implementation and execution?

- A. Develop and prioritizing test cases, creating test data, writing test procedures and optionally, preparing test harness and writing automated test scripts.
- B. Logging the outcome of test execution and recording the identities and versions of the software under test, test tools and testware.
- C. Checking test logs against the exit criteria specified in test planning.
- D. Verifying that the test environment has been set up correctl

Answer: C

NEW QUESTION 91

In the MASPAR case study..?

- A. Security failures were the result of untested parts of code
- B. The development team achieved complete statement and branch coverage but missed a serious bug in the MASPAR operating system
- C. An error in the code was so obscure that you had to test the function with almost every input value to find its two special-case failures
- D. All the above

Answer: C

NEW QUESTION 94

The five parts of the fundamental test process have a broad chronological order. Which of the options gives three different parts in the correct order?

- A. Implementation and execution, planning and control, analysis and design.
- B. Analysis and design, evaluating exit criteria and reporting, test closure activities.
- C. Evaluating exit criteria and reporting, implementation and execution, analysis and design.
- D. Evaluating exit criteria and reporting, test closure activities, analysis and design.

Answer: B

Explanation:

All other answers have at least one stage of the fundamental test process in the wrong sequence.

NEW QUESTION 97

Which of the following is a benefit of test independence?

- A. It does not require familiarity with the code.
- B. It is cheaper than using developers to test their own code.

- C. It avoids author bias in defining effective tests.
- D. Testers are better at finding defects than developer

Answer: C

NEW QUESTION 100

Boundary value testing:

- A. Is the same as equivalence partitioning tests
- B. Test boundary conditions on, below and above the edges of input and output equivalence classes
- C. Tests combinations of input circumstances
- D. Is used in white box testing strategy

Answer: B

NEW QUESTION 103

Which of the following are most likely to be used when developing a test strategy or test approach?

(i) Failure-based approach (ii) Test specification approach (iii) Model-based approach (iv) Finance-based approach

- A. (iii) and (ii)
- B. (i) and (iv)
- C. (ii) and (i)
- D. (i) and (iii)

Answer: C

NEW QUESTION 107

Incorrect form of Logic coverage is:

- A. Statement Coverage
- B. Pole Coverage
- C. Condition Coverage
- D. Path Coverage

Answer: B

NEW QUESTION 110

Reporting Discrepancies as incidents is a part of which phase:

- A. Test Analysis and Design
- B. Test Implementation and execution
- C. Test Closure Activities
- D. Evaluating exit criteria and reporting

Answer: B

NEW QUESTION 113

Which statement is most true?

- A. Different testing is needed depending upon the application.
- B. All software is tested in the same way.
- C. A technique that finds defects will always find defects.
- D. A technique that has found no defects is not useful.

Answer: A

Explanation:

This is a restatement of the testing principle 'Testing is context dependent'

NEW QUESTION 117

Which of the following are static techniques?

- A. Walkthrough.
- B. State transition testing.
- C. Decision table testing.
- D. Statement testing.

Answer: A

Explanation:

Options (B), (C) and (D) are all dynamic test techniques.

NEW QUESTION 120

What if the project isn't big enough to justify extensive testing..?

- A. Use automation tool for testing
- B. Use risk based analysis to find out which areas need to be tested
- C. Both a and b
- D. None of the above

Answer: B

NEW QUESTION 122

Which of the following is MOST important in the selection of a test approach?

- A. Availability of tools to support the proposed techniques.
- B. The budget allowed for training in proposed techniques.
- C. Available skills and experience in the proposed techniques.
- D. The willingness of the test team to learn new technique

Answer: C

NEW QUESTION 124

Which of the following statements BEST describes one of the seven key principles of software testing?

- A. Automated tests are better than manual tests for avoiding the Exhaustive Testing.
- B. Exhaustive testing is, with sufficient effort and tool support, feasible for all software.
- C. It is normally impossible to test all input / output combinations for a software system.
- D. The purpose of testing is to demonstrate the absence of defect
- E. The purpose of testing is to demonstrate the absence of defects.

Answer: C

NEW QUESTION 127

Which option is part of the 'implementation and execution' area of the fundamental test process?

- A. Developing the tests.
- B. Comparing actual and expected results.
- C. Writing a test summary.
- D. Analyzing lessons learnt for future releases.

Answer: B

Explanation:

- A. is part of 'Analysis and design'.
- C. is part of 'Evaluating exit criteria and reporting'.
- D. is part of 'Test closure activities'.

NEW QUESTION 132

Statement Coverage will not check for the following:

- A. Missing Statements
- B. Unused Branches
- C. Dead Code
- D. Unused Statement

Answer: A

NEW QUESTION 137

Who is responsible for conducting test readiness review..?

- A. Project Manager
- B. Test Engineer
- C. Test Manager
- D. None of the above

Answer: C

NEW QUESTION 142

Which of the following are the typical defects found by static analysis tools?

- A. Variables that are never used.
- B. Security vulnerabilities.
- C. Poor performance.
- D. Unreachable code.
- E. Business processes not followed.
- F. b, c and d are true; a and e are false
- G. a is true; b, c, d and e are false
- H. c, d and e are true; a and b are false
- I. a, b and d are true; c and e are false

Answer:

D

NEW QUESTION 146

Fault Masking is:

- A. Error condition hiding another error condition
- B. Creating a test case which does not reveal a fault
- C. Masking a fault by developer
- D. Masking a fault by a tester

Answer: A

NEW QUESTION 147

What can a risk-based approach to testing provide?

- A. The types of test techniques to be employed.
- B. The total tests needed to provide 100 per cent coverage.
- C. An estimation of the total cost of testing.
- D. Only that test execution is effective at reducing risk

Answer: A

NEW QUESTION 148

Which of the following is a non-functional requirement?

- A. The system will enable users to buy books.
- B. The system will allow users to return books.
- C. The system will ensure security of the customer details.
- D. The system will allow up to 100 users to log in at the same time.

Answer: D

Explanation:

The other options are functional requirements. Note that security is regarded as a functional requirement in this syllabus.

NEW QUESTION 150

Which of the following is usually the test basis for integration testing?

- A. Program specification
- B. Functional specification
- C. Technical specification
- D. Requirement specification

Answer: C

Explanation:

Option (A) is used for unit testing. Option (B) is used for system testing and Option (D) is used for acceptance testing.

NEW QUESTION 151

The following statements relate to activities that are part of the fundamental test process.

- A. Evaluating the testability of requirements.i
- B. Repeating testing activities after changes.ii
- C. Designing the test environment set-up.i
- D. Developing and prioritizing test cases.
- E. Verifying the environment is set up correctly
- F. Which statement below is TRUE?
- G. (i) and (ii) are part of analysis and design, (iii), (iv) and (v) are part of test implementation and execution.
- H. (i) and (iii) are part of analysis and design, (ii), (iv) and (v) are part of test implementation and execution.
- I. (i) and (v) are part of analysis and design, (ii), (iii) and (iv) are part of test implementation and execution.
- J. (i) and (iv) are part of analysis and design, (ii), (iii) and (v) are part of test implementation and execution.

Answer: B

Explanation:

All other answers contain an activity identified as analysis and design that is part of implementation and test execution.

NEW QUESTION 154

What is the purpose of test completion criteria in a test plan:

- A. To know when a specific test has finished its execution
- B. To ensure that the test case specification is complete
- C. To set the criteria used in generating test inputs
- D. To know when test planning is complete
- E. To plan when to stop testing

Answer: E

NEW QUESTION 157

Which statement correctly describes the public and profession aspects of the code of ethics?

- A. Public: Certified software testers shall act in the best interests of their client and employer (being consistent with the wider public interest). Profession: Certified software testers shall advance the integrity and reputation of their industry consistent with the public interest.
- B. Public: Certified software testers shall advance the integrity and reputation of the profession consistent with the public interest.
- C. Profession: Certified software testers shall consider the wider public interest in their actions.
- D. Public: Certified software testers shall consider the wider public interest in their action.
- E. Profession: Certified software testers shall participate in lifelong learning regarding the practice of their profession and shall promote an ethical approach to the practice of their profession.
- F. Public: Certified software testers shall consider the wider public interest in their action.
- G. Profession: Certified software testers shall advance the integrity and reputation of their industry consistent with the public interest.

Answer: D

Explanation:

All other answers contain an activity identified as analysis and design that is part of implementation and test execution.

NEW QUESTION 161

Which of the following is not decided in the test-planning phase..?

- A. Schedules and deliverables
- B. Hardware and software
- C. Entry and exit criteria
- D. Types of test cases

Answer: D

NEW QUESTION 166

A deviation from the specified or expected behavior that is visible to end-users is called:

- A. an error
- B. a fault
- C. a failure
- D. a defect

Answer: C

NEW QUESTION 171

Pick the best definition of quality:

- A. Quality is job one
- B. Zero defects
- C. Conformance to requirements
- D. Work as designed

Answer: C

NEW QUESTION 173

What test roles (or parts in the testing process) is a developer most likely to perform?

- (i) Executing component integration tests.
- (ii) Static analysis.
- (iii) Setting up the test environment.
- (iv) Deciding how much testing should be automated.

- A. (i) and (ii)
- B. (i) and (iv)
- C. (ii) and (iii)
- D. (iii) and (iv)

Answer: A

Explanation:

- (i) Executing component integration tests is usually done by developers. Developers are usually responsible for unit and component integration testing. Independent testing usually follows at system and acceptance test levels.
- (ii) Static analysis is usually done by developers because: it requires an understanding of the code and therefore the person doing this needs skills in the programming language; and it can be done as soon as the code is written. Therefore it is quick and effective for the developer to do it. The risk of a lack of test independence can be mitigated by performing independent system and acceptance testing.
- (iii) Setting up the test environment is an activity typically performed by a tester. It may require support from developers and staff from other departments and on some occasions environments could be set up by developers. However, it is a task that could be done by a tester rather than a developer.
- (iv) Deciding how much testing should be automated is typically a decision made by the test leader, who will consult other staff in the decision-making process. Developers may be involved and their skills may be required to automate some tests. However, the decision on how much to automate should not be made by developers.

NEW QUESTION 177

Which statement below BEST describes non-functional testing?

- A. The process of testing an integrated system to verify that it meets specified requirements.
- B. The process of testing to determine the compliance of a system to coding standards.
- C. Testing without reference to the internal structure of a system.
- D. Testing system attributes, such as usability, reliability or maintainability

Answer: A

NEW QUESTION 178

Which is not the fundamental test process?

- A. Planning and control
- B. Test closure activities
- C. Analysis and design
- D. None

Answer: D

NEW QUESTION 182

Which of the following is not a major task of Exit criteria?

- A. Checking test logs against the exit criteria specified in test planning.
- B. Logging the outcome of test execution.
- C. Assessing if more tests are needed.
- D. Writing a test summary report for stakeholder

Answer: B

NEW QUESTION 186

Which of the following statements BEST describes one of the seven key principles of software testing?

- A. Automated tests are better than manual tests for avoiding the Exhaustive Testing.
- B. Exhaustive testing is, with sufficient effort and tool support, feasible for all software.
- C. It is normally impossible to test all input / output combinations for a software system.
- D. The purpose of testing is to demonstrate the absence of defect
- E. The purpose of testing is to demonstrate the absence of defects.

Answer: C

NEW QUESTION 187

When a defect is detected and fixed then the software should be retested to confirm that the original defect has been successfully removed. This is called:

- A. Regression testing
- B. Maintenance testing
- C. Confirmation testing
- D. None of the above

Answer: C

NEW QUESTION 189

A top-down development strategy affects which level of testing most?

- A. Component testing
- B. Integration testing
- C. System testing
- D. User acceptance testing

Answer: B

Explanation:

The development strategy will affect the component testing (option (A)), in so far as it cannot be tested unless it has been built. Options (C) and (D) require the system to have been delivered; at these points the development strategy followed is not important to the tester. Option (B) needs knowledge of the development strategy in order to determine the order in which components will be integrated and tested.

NEW QUESTION 192

Incidents would not be raised against

- A. Requirements
- B. Documentation
- C. Test cases
- D. Improvements suggested by users

Answer: D

NEW QUESTION 197

Which of the following comparisons of component testing and system testing are TRUE?

- A. Component testing verifies the functioning of software modules, program objects, and classes that are separately testable, whereas system testing verifies interfaces between components and interactions with different parts of the system.
- B. Test cases for component testing are usually derived from component specifications, design specifications, or data models, whereas test cases for system testing are usually derived from requirement specifications, functional specifications or use cases.
- C. Component testing focuses on functional characteristics, whereas system testing focuses on functional and non- functional characteristics.
- D. Component testing is the responsibility of the technical testers, whereas system testing typically is the responsibility of the users of the system.

Answer: B

NEW QUESTION 198

To test a function, the programmer has to write a , which calls the function to be tested and passes it test data:

- A. Stub
- B. Driver
- C. Proxy
- D. None of the above

Answer: B

NEW QUESTION 199

Which of the following pairs of test tools are likely to be most useful during the test analysis and design stage of the fundamental test process?

- (i) Test execution tool
- (ii) Test data preparation tool
- (iii) Test management tool
- (iv) Requirements management tool

- A. (i) and (ii)
- B. (i) and (iv)
- C. (ii) and (iii)
- D. (iii) and (iv)

Answer: D

NEW QUESTION 201

Testing should be stopped when:

- A. All the planned tests have been run
- B. Time has run out
- C. All faults have been fixed correctly
- D. Both A and C
- E. It depends on the risks for the system being tested

Answer: E

NEW QUESTION 204

Which of the following statements best characterises maintenance testing? [K2]

- A. Maintenance testing is triggered by changes to delivered software and uses impact analysis to minimise the amount of regression testing needed
- B. Maintenance testing is triggered by changes to software under development before initial delivery and uses the test plan to determine how much regression testing to do
- C. Maintenance testing is triggered by changes to the test environment and uses testing tools to perform regression testing
- D. Maintenance testing is triggered by changes to the software environment and uses structural testing to ensure the changes function correctly

Answer: A

NEW QUESTION 206

Which of the following would typically be identified using static analysis by tools? [K1]

- A. Spelling mistake on an error message
- B. A potential infinite loop
- C. Memory leakage
- D. A variable set to the wrong value

Answer: B

NEW QUESTION 208

Which statement correctly describes debugging? [K2]

- A. Testers identify defects, developers locate and correct defects, testers confirm the correction has cleared the original defect
- B. Developers identify defects, testers locate defects, developers correct and confirm the correction has cleared the original defect
- C. Testers identify and locate defects, developers correct defects and confirm the correction has cleared the original defect
- D. Developers identify, locate and correct defects, testers confirm the correction has cleared the original defect

Answer:

A

NEW QUESTION 210

Which of the following test case design techniques is white box (structure-based)? [K1]

- A. Use case testing
- B. State transition testing
- C. Decision testing
- D. Equivalence partitioning

Answer: C

NEW QUESTION 215

Which statement BEST describes when test planning should be performed? [K1]

- A. Test planning is performed only once, at the beginning of the life cycle, and generates a Master Test Plan
- B. Test planning is performed at the beginning of the life cycle and again at the beginning of test execution
- C. Test planning is performed at the beginning of the life cycle and again at every test level
- D. Test planning is performed continuously in all life cycle processes and activities

Answer: D

NEW QUESTION 220

Which of the following correctly states a limitation in the use of static analysis tools? [K1]

- A. Static analysis tools can be applied to new code but cannot be applied to existing code
- B. Static analysis tools can be used to enforce coding standards
- C. Static analysis tools always generate large numbers of warning messages when applied to new code, even if the code meets coding standards
- D. Static analysis tools do not generate warning messages when applied to existing code

Answer: B

NEW QUESTION 225

System testing is:

- A. Used to search for defects in software modules that are separately testable.
- B. The responsibility of the users of a system.
- C. Concerned with the behavior of a whole system/product as defined by the scope of a development project.
- D. Triggered by modifications, migration or retirement of the software system

Answer: C

NEW QUESTION 228

Which of the following factors will MOST affect the testing effort required to test a software product? [K1]

- A. The number of staff available to execute tests
- B. The level of detail in the test plan
- C. The requirements for reliability and security in the product
- D. The test estimation method used

Answer: C

NEW QUESTION 229

What is decision table testing?

- A. It's a testing design technique based in the internal software structure.
- B. It's a static test design technique.
- C. It's a testing design technique to verify decisions.
- D. It's a testing design technique based in the system requirement

Answer: D

NEW QUESTION 231

Which of the following characteristics is most likely to promote effective software testing? [K1]

- A. Independence from the production process
- B. A belief that programmers always make mistakes
- C. Knowledge of the number of defects typically found in a program
- D. Confidence that the next stage will find defects missed at this stage

Answer: A

NEW QUESTION 233

A client-server system for a web development must support a minimum enquiries per hour. In peak times, it must be available 24 hours x 7 days due to the critical

nature of the application, and must have a response time lower than 20 seconds during peak loads.
Which of the following set of test types would be most appropriate to verify the non-functional requirements expressed in this statement?

- A. Performance, Usability, Regression.
- B. System, Load, Fail-over.
- C. Performance, Load, Stress.
- D. Load, Volume and Componen

Answer: C

NEW QUESTION 235

A bank is developing a new service that will be delivered via the web. The user interactions are defined as a set of use cases and the service is designed to be available continuously 24/7. In view of the challenging characteristics of the service the test manager has decided that the code should be thoroughly tested at component level.

Which of the following test types will be required during the development? [K2]

- A. Functional testing to test security at the system level, load testing at the system level to ensure the system availability is acceptable, regression testing at all levels, structure based testing at the component level only
- B. Functional testing to test the use cases at component level, reliability testing to test availability at the integration level, regression testing at the system testing level only, structure based testing at all levels
- C. Functional testing of the use cases at system level, load testing at component level to ensure availability is acceptable, regression testing at the system and acceptance levels only, and structure based testing at the integration level only
- D. Functional testing to test security at the acceptance level, load testing at the acceptance test level to ensure availability is acceptable, regression testing at the acceptance level only to ensure late changes are made correctly, and structure based testing at the component level

Answer: A

NEW QUESTION 239

Dynamic Analysis Tools are used to:

- A. Determine differences between files or databases.
- B. Monitor and report on how a system behaves under a variety of conditions.
- C. Find defects, such as memory leaks, while software is executing.
- D. Measure the percentage of specific types of code structure that have been exercise

Answer: C

NEW QUESTION 242

Which of the following metrics could be used to monitor progress along with test preparation and execution? [K1]

- A. The total number of tests planned
- B. The total number of requirements to be tested
- C. The failure rate in testing already completed
- D. The number of testers used for test execution so far

Answer: C

NEW QUESTION 243

In a system designed to work out the employee tax to be paid:

- _ An employee has \$4,000 of salary tax free.
- _ The next \$1,500 is taxed at 10%.
- _ The next \$28,000 after that is taxed at 22%.
- _ Any further amount is taxed at 40%.

Which of these is a valid Boundary Value Analysis test case?

- A. \$28,000
- B. \$1,500
- C. \$33,501
- D. \$5,000

Answer: C

NEW QUESTION 245

Which of the following statements is most true about test conditions?

- A. An item or event of a component or system that can be verified by one or more test cases.
- B. The grouping of a composite set of test cases which, when tested as a whole, reveal a positive or negative result.
- C. A testable component derived from business requirements.
- D. Applies to software testing only

Answer: A

NEW QUESTION 246

"Experience based" test design techniques, typically...

- A. Use decision tables to generate the Boolean test conditions to be executed.
- B. Identify the structure of the system or software at the component, integration or system level.

- C. Use the skill, intuition and experience of the tester to derive the test cases, using error guessing and exploratory testing.
- D. Establish traceability from test conditions back to the specifications and requirement

Answer: C

NEW QUESTION 249

Component testing may include:

- A. Sociability testing.
- B. User acceptance testing.
- C. Beta testing.
- D. The use of stubs and driver

Answer: D

NEW QUESTION 251

Which of the following is a role of a formal review? [K1]

- A. Adjudicator
- B. Moderator
- C. Governor
- D. Corrector

Answer: B

NEW QUESTION 253

When should testers be involved in reviewing a UAT specification? [K1]

- A. At the beginning of the project
- B. As soon as requirements have been approved
- C. As soon as the UAT specification has been drafted
- D. At any time before UAT begins

Answer: C

NEW QUESTION 256

How does software testing contribute to the quality of delivered software? [K2]

- A. By detecting and removing all the defects in the delivered code and ensuring that all tests adhere to the quality standards set for the project
- B. By measuring reliability of the software and ensuring that it is always above 99.99%
- C. By identifying root causes of defects from past projects and using the lessons learned to improve processes and thus help to reduce the defect count
- D. By detecting all deviations from coding good practice and ensuring that these are corrected

Answer: C

NEW QUESTION 259

Test script TransVal 3.1 tests transaction validation via screen TRN 003B. According to the specification (PID ver 1.3 10b iv) the validation screen should not accept future dated transactions. Test script TransVal 3.1 passes. Test script eod

1.4 tests end of day processing and is run after the execution of TransVal 3.1 using data entered during that test Which of the following is the BEST detail on an incident report? [K3]

- A. Titl
- B. End of Day failure.. Reproducibl
- C. Ye
- D. Descriptio
- E. Script eod 1.4 fails when the first transaction of the day is a future dated transactio
- F. Screen shot of the failure attached.
- G. Titl
- H. Transaction input screen validation..Reproducibl
- I. Ye
- J. Descriptio
- K. Script eod 1..4 fails . Screen shot of the failure attache
- L. Validation of transaction entryon screen TRN-003B should not allow future dated transactions – see PID ver 1.3 para 10b iv.
- M. Titl
- N. Screen TRN-003B validation of transaction date.. Reproducibl
- O. N
- P. Descriptio
- Q. When a future dated transaction is processed by the end of day process, a failure can occu
- R. This does not always happe
- S. Screen shot of thefailure attached.
- T. Titl
- . Screen TRN-003B validation of transaction dat
- . Reproducibl
- . Ye
- . Descriptio
- . Script eod 1.4 fails when the first transaction of the day is a future dated transactio
- . Screen shot of the failure attache
- . Validation of transaction entry on screen TRN-003B should not allow future dated transactions– see PID ver 1.3 para 10b i

Answer: D

NEW QUESTION 260

What is the value of static code analysis?

- A. Detection of failures not easily found by other types of testing
- B. Early defect detection
- C. Detection of suspicious operations caused by deviations from regulations
- D. Detect deviations in standards by executing the source code

Answer: B

NEW QUESTION 261

Which of the following processes ensures that all items of testware are identified, version controlled, tracked for changes, so that traceability can be maintained throughout the test process?

- A. Software traceability process
- B. Incidence management process
- C. Testing design process
- D. Configuration management process

Answer: D

NEW QUESTION 264

A system is being enhanced to simplify screen navigation for users. Which of the following does NOT reflect structural testing?

- A. To test all paths that users could take through the screen menu system
- B. To ensure that 100% decision testing is achieved for each system component
- C. To test all branches of component calls within the application call graph
- D. To ensure that users can navigate to all fields on the screen

Answer: C

NEW QUESTION 269

Testing effort can depend on a number of factors, which one of following is MOST likely to impact the amount of effort required?

- A. The predicted number of defects and the amount of rework required
- B. The ratio of developers to testers in the project team
- C. The planned use of a project management tool to schedule tasks
- D. The responsibilities for testers and developers being clearly defined

Answer: C

NEW QUESTION 274

Which of the following activities is appropriate to the test planning stage?

- A. Analysing the test basis
- B. Assigning resources for the planned activities
- C. Designing the test environments
- D. Writing a test execution schedule

Answer: B

NEW QUESTION 275

A live defect has been found where a code component fails to release memory after it has finished using it.

Which of the following tools would have been the MOST effective at detecting this defect prior to live implementation?

- A. Dynamic analysis tool
- B. Monitoring tool
- C. Configuration management tool
- D. Coverage measurement tool

Answer: A

NEW QUESTION 276

Which of the following would achieve the HIGHEST level of testing independence for a project's test level?

- A. Training developers to design good tests for the test team to execute
- B. Outsourcing test design and execution to a different company
- C. Having the company's independent test team design and execute the tests
- D. Minimising contact between testers and developers during test design to avoid bias

Answer: A

NEW QUESTION 281

Which of the following options explain why it is often beneficial to have an independent test function in an organisation?

- A. To improve defect finding during reviews and testing
- B. To ensure that developers adhere to coding standards
- C. To limit communication between developers and testers
- D. To provide better metrics for the stakeholders

Answer: D

NEW QUESTION 285

Why is measurement of code coverage Important?

- A. Because 100% code coverage implies 100% coverage of requirements
- B. Because 100% code coverage guarantees that there are no coding errors
- C. Because code coverage can be used to ensure that all code is exercised by tests
- D. Because code coverage can ensure that all decisions are correctly implemented in the code

Answer: A

NEW QUESTION 290

The following Test Cases have been created for a simple web-based airline booking system. Test Case 1: Search for an item Available Flights

Test Case 2: View selected item in My Flights Test Case 3: Login to the system: Login is accepted

Test Case 4: Select an available flight: item added to My Flights Test Case 5: Print confirmation receipt, then exit Test Case 6: In My Flights, confirm details and book flight

Which of the following is the correct logical order for the test cases?

- A. 6, 3, 1, 4, 2, 5
- B. 3, 4, 1, 2, 5, 6
- C. 3, 2, 1, 4, 6, 5
- D. 3, 1, 4, 2, 6, 5

Answer: B

NEW QUESTION 295

Which one of the following statements about testing techniques is TRUE?

- A. Exploratory testing can replace black box techniques when testing time is very limited
- B. Test execution scheduling should give priority to experienced based testing
- C. Specification based techniques can be used as a substitute for a poorly defined test basis
- D. Experienced based techniques are systematic and produce detailed test documentation

Answer: A

NEW QUESTION 300

Which of the following is a Black Box test design technique?

- A. Decision Coverage
- B. Error Guessing
- C. Statement Coverage
- D. Equivalence Partitioning

Answer: D

NEW QUESTION 305

Which of the following is a white-box test technique?

- A. Decision table testing
- B. Exploratory testing
- C. Statement testing
- D. Error guessing

Answer: C

NEW QUESTION 309

Which of the following would be a good test technique to use when under severe time pressure?

- A. Exploratory testing
- B. Structure based testing
- C. Specification based testing
- D. Use Case testing

Answer: B

NEW QUESTION 314

During the development of a software change for a system, the developer makes a mistake in his work, which leads to a fault in the code. Unfortunately the fault is not found by software testing and is released into live.
What is the definite consequence of this mistake?

- A. The system will fail, causing a defect
- B. If the defect is executed, the system may fail
- C. Loss of money, time, or business reputation
- D. Contractual requirements have not been met by testing

Answer: B

NEW QUESTION 318

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