



# ISTQB

## Exam Questions CTFL-Foundation

Certified Tester Foundation Level

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#### NEW QUESTION 1

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 2

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 3

What is the main reason why reviews are especially beneficial in the above-mentioned scenario? 2 credits

- A. They ensure a common understanding of the product.
- B. They find defects early.
- C. They enhance project communication.
- D. They can be performed without exercising the code.

**Answer:** D

#### NEW QUESTION 4

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 5

Which of the following would be the most significant input to estimating the time to carry out the specified testing tasks? 3 credits

- A. The skills and experience of developers to correct the failures.
- B. The standards used for the requirements specification.
- C. The metrics recorded from testing the capture-replay tool.
- D. The number of testers in the company and their grad

**Answer:** C

#### NEW QUESTION 6

Which of the following would you expect to see in the master test plan? 1 credit

- A. A description of how the test cases are cross-referenced to requirements in the test management tool.
- B. A detailed identification of the resources that will carry out structural testing in the first iteration.
- C. The test approach that will be applied at system integration testing.
- D. A list of the names of the testers who will carry out the performance testing for the final iteratio

**Answer:** C

#### NEW QUESTION 7

Which test management control option is most appropriate to adopt under these circumstances? 2 credits

- A. Introduce mandatory evening and weekend working to retrieve the 3 week slippage.
- B. Reconsider the exit criteria and review the test plan in the context of the current situation.
- C. Advise the user community regarding the reduced scope of requirements and the additional incremental delivery.
- D. Arrange a meeting with the user community representatives to discuss the user interfac

**Answer:** B

#### NEW QUESTION 8

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 9

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 10

Which of the following is a valid drawback of independent testing? 1 credit

- A. Developer and independent testing will overlap and waste resources.
- B. Developers lose the sense of responsibility and independent testers may become a bottleneck.
- C. Independent testers need extra education and always cost more.
- D. Independent testers will become a bottleneck and introduce problems in incident management

**Answer:** B

#### NEW QUESTION 10

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 12

In addition to introducing the new team member, you have decided to raise motivation. Which of the measures listed below would be the best measure to take in order to increase the motivation of the team? 2 credits

- A. Provide more time for testing in the schedule
- B. Allow people to take some time off
- C. Introduce entry criteria to the testing phase
- D. Organize a meeting with senior management in which they address the importance of good testing for this project

**Answer:** D

#### NEW QUESTION 16

In general, why is it NOT a good idea to estimate the testing effort based only on a percentage of development effort? Identify THREE valid reasons. 1 credit

- A. The quality of the development estimate may be poor.
- B. In general bottom-up estimation is always better than top-down estimation.
- C. The percentage based technique only applies to the V life cycle model.
- D. Using the same percentage every time does not address the level of risk of the application to be tested.
- E. The maturity of the organization, e.
- F. the quality of the test basis, quality of development testing, configuration management, availability of test tools, also influence the effort needed for testing.
- G. It builds on large set of historical data
- H. The result is almost always a too low estimate for the required test effort

**Answer:** ADE

#### NEW QUESTION 17

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 18

Identify THREE items that would be part of the work-breakdown structure showing the key testing activities for the acceptance test project. 2 credits (for 2 out correct 1 credit)

- A. Test planning, test case preparation and test execution for each of the four iterations
- B. Work should be explicitly allocated to test completion, test management, installation and to training on using the system
- C. Activities to deploy the system in the user environment
- D. Regression testing in the second, third and fourth iterations
- E. Development activities for unit and integration testing
- F. Reviews on requirements documentation
- G. Defining test environment requirements for system testing

**Answer:** ABD

#### NEW QUESTION 22

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 24

Which THREE activities would be valid steps during the development of the test strategy? 2 credits (2 out correct 1 credit)

- A. Identify test staff members that will be involved in the system test
- B. Define test career paths
- C. Understand the software development life cycle used by the software house
- D. Assess the testing that needs to be done to minimize the risks
- E. Issue the test strategy document for review
- F. Define a master test plan template
- G. Perform a project risk analysis

**Answer:** CDE

#### NEW QUESTION 27

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 29

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 33

As a result of the RAD based development approach, the test manager has decided to change the risk mitigation approach. Which test technique might be most appropriate to use? 2 credits

- A. Decision Table Testing
- B. Boundary Value Analysis
- C. Error Guessing
- D. Exploratory Testing

**Answer:** D

#### NEW QUESTION 38

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 43

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 46

Which of the following could be a reason for a failure?

- 1) Testing fault
- 2) Software fault
- 3) Design fault
- 4) Environment Fault
- 5) Documentation Fault

- A. 2 is a valid reason; 1, 3, 4 & 5 are not
- B. 1, 2, 3, 4 are valid reasons; 5 is not
- C. 1, 2, 3 are valid reasons; 4 & 5 are not
- D. All of them are valid reasons for failure

**Answer:** A

#### NEW QUESTION 49

Which of the following are aids to good communication, and which hinder it?

- A. Try to understand how the other person feels.i
- B. Communicate personal feelings, concentrating upon individuals.ii
- C. Confirm the other person has understood what you have said and vice versa.i
- D. Emphasize the common goal of better quality.
- E. Each discussion is a battle to be won.
- F. (i), (ii) and (iii) aid, (iv) and (v) hinder.
- G. (iii), (iv) and (v) aid, (i) and (ii) hinder.
- H. (i), (iii) and (iv) aid, (ii) and (v) hinder.
- I. (ii), (iii) and (iv) aid, (i) and (v) hinder

**Answer:** C

#### NEW QUESTION 52

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 56

Code Coverage is used as a measure of what?

- A. Defects
- B. Trends analysis
- C. Test Effectiveness
- D. Time Spent Testing

**Answer:** C

#### NEW QUESTION 57

Which of the following statements contains a valuable objective for a test team?

- A. Prove that the remaining defects will not cause any additional failures.
- B. Run all of the tests that are defined for the test object as quickly as possible.
- C. Prove that all faults have been identified through thorough testing.
- D. Cause as many failures as possible so that faults can be identified and corrected

**Answer:** D

#### NEW QUESTION 59

Designing the test environment set-up and identifying any required infrastructure and tools are a part of which phase:

- A. Test Implementation and execution
- B. Test Analysis and Design
- C. Evaluating the Exit Criteria and reporting
- D. Test Closure Activities

**Answer:** B

#### NEW QUESTION 63

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 65

Which of the following is true about the V-model?

- A. It has the same steps as the waterfall model for software development.
- B. It is referred to as a cyclical model for software development.
- C. It enables the production of a working version of the system as early as possible.
- D. It enables test planning to start as early as possibl

**Answer:** D

#### NEW QUESTION 66

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 68

Which of the following are valid justifications for developers testing their own code during unit testing?

- (i) Their lack of independence is mitigated by independent testing during system and acceptance testing.
- (ii) A person with a good understanding of the code can find more defects more quickly using white-box techniques.
- (iii) Developers have a better understanding of the requirements than testers.
- (iv) Testers write unnecessary incident reports because they find minor differences between the way in which the system behaves and the way in which it is specified to work.

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

**Answer:** A

#### Explanation:

It is unlikely that developers will have a better understanding of the requirements than testers, partly because testers work closely with the user community (and may be drawn from it) and partly because developers seldom work with the complete set of requirements in a medium to large development.

Testers may raise incidents related to the difference between user expectations and the specification, but these are not unnecessary. Such issues are more likely to arise at the later stages of testing.

Early testing (unit testing) is usually done most effectively by developers with a good understanding of the code and the development environment; they can be more efficient and more effective at this level. Later independent stages of testing offset any disadvantage from the lack of independence at unit testing level.

#### NEW QUESTION 72

Which of the following are the most important factors to be taken into account when selecting test techniques?

- (i) Tools available.
  - (ii) Regulatory standards.
  - (iii) Experience of the development team.
  - (iv) Knowledge of the test team.
- The need to maintain levels of capability in each technique.

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

**Answer:** B

#### Explanation:

Answer (i) looks temptingly right, and the availability of tools might make the use of a technique more or less attractive, but it would not be decisive in the way that



regulatory standards and tester knowledge are.

Answer (iii) is irrelevant because testing should be independent of development anyway, but it could tempt someone who is unsure about the relationship between development and testing.

Answer (v) is a factor in managing the test team, and experience would need to be maintained, but this should not influence the selection of techniques for a live project.

#### NEW QUESTION 73

Which of the following principles should be followed when introducing a test tool into an organization?

- (i) Assessing organizational maturity to establish whether a tool will provide expected benefits.
- (ii) Requiring a quick payback on the initial investment.
- (iii) Including a requirement for the tool to be easy to use without having to train unskilled testers.
- (iv) Identifying and agreeing requirements before evaluating test tools.

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

**Answer:** B

#### Explanation:

Assessing organizational maturity (i) is very important when deciding whether to introduce a test tool, as implementing a tool in an immature test organization with poor processes is unlikely to produce any benefits.

A quick return on the initial investment (ii) in a test tool is rare.

Having a requirement that a tool should be easy to use for untrained and unskilled testers (iii) is generally a false hope. This is comparable with expecting someone who has never driven a car to be able to drive safely and effectively. Agreeing requirements before evaluating tools (iv) is essential. Not to do so would be comparable with building and testing a system without requirements.

In conclusion, (i) and (iv) are good principles to follow when introducing a tool and (ii) and (iii) are not.

#### NEW QUESTION 74

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 79

Tools like change Man, Clear case are used as..?

- A. functional automation tools
- B. performance testing tools
- C. configuration management tools
- D. none of the above

**Answer:** C

#### NEW QUESTION 81

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 85

Which is not the testing objective?

- A. Finding defects
- B. Gaining confidence about the level of quality and providing information
- C. Preventing defects.
- D. Debugging defects

**Answer:** D

#### NEW QUESTION 88

Hand over of Testware is a part of which Phase:

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



**Answer:** C

#### NEW QUESTION 92

What is the concept of introducing a small change to the program and having the effects of that change show up in some test..?

- A. Introducing mutations
- B. Performance testing
- C. A mutation error
- D. Debugging a program

**Answer:** A

#### NEW QUESTION 96

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 process

**Answer:** B

#### NEW QUESTION 99

Which of the following defects is most likely to be found by a test harness?

- A. Variance from programming standards.
- B. A defect in middleware.
- C. Memory leaks.
- D. Regression defects.

**Answer:** B

#### Explanation:

Variance from programming standards defects (option (A)) are found during the review or static testing process.

Therefore a test harness is unlikely to find a defect in programming standards.

Memory leak defects (option (C)) could potentially be found by a test harness designed to run many test cases. Regression defects (option (D)) could be found using many types of test tool.

Defects in middleware (option (B)) are generally more likely to be found by a test harness or a dynamic analysis tool than by any other type of tool.

#### NEW QUESTION 104

Which of the following statements is the MOST valid goal for a test team?

- A. Determine whether enough component testing was executed.
- B. Cause as many failures as possible so that faults can be identified and corrected.
- C. Prove that all faults are identified.
- D. Prove that any remaining faults will not cause any failure

**Answer:** B

#### NEW QUESTION 109

For which of the following activities in the fundamental test process would an incident management tool be most useful?

- A. Test planning and control
- B. Test analysis and design
- C. Test implementation and execution
- D. Evaluating exit criteria and reporting

**Answer:** C

#### Explanation:

Incident management tools are most useful during test implementation and execution as this is the stage at which the tool is used to raise, manage, retest and close incidents.

The data collected during the defect life cycle can then be manipulated into information that is useful for other activities within the fundamental test process.

Information on numbers of defects outstanding may be useful for evaluating exit criteria (option (D)). This information could also be used for planning future testing and for taking control (option (A)).

Incident management tools can also assist in test analysis and design (option (B)) as information about defects found when testing the previous release of the system could be used when analyzing the type of testing required for the next enhancement.

#### NEW QUESTION 110

During the software development process, at what point can the test process start?

- A. When the code is complete.
- B. When the design is complete.
- C. When the software requirements have been approved.
- D. When the first code module is ready for unit testing

**Answer:** C

#### NEW QUESTION 114

In a review meeting a moderator is a person who:

- A. Takes minutes of the meeting
- B. Mediates between people
- C. Takes telephone calls
- D. Writes the documents to be reviewed

**Answer:** B

#### NEW QUESTION 117

Which of the following defines the expected result of a test?

- A. Test case
- B. Test procedure
- C. Test execution schedule
- D. Test condition

**Answer:** A

#### NEW QUESTION 121

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 126

Faults found by users are due to..?

- A. Poor quality software
- B. Poor software and poor testing
- C. Bad luck
- D. Insufficient time for testing

**Answer:** B

#### NEW QUESTION 129

What is the purpose of exit criteria?

- A. To identify how many tests to design.
- B. To identify when to start testing.
- C. To identify when to stop testing.
- D. To identify who will carry out the test executio

**Answer:** C

#### NEW QUESTION 134

When what is visible to end-users is a deviation from the specific or expected behavior, this is called..?

- A. An error
- B. A fault
- C. A failure
- D. A defect
- E. A mistake

**Answer:** C

#### NEW QUESTION 139

During which test activity could faults be found most cost effectively?

- A. Execution
- B. Design
- C. Planning
- D. Check Exit criteria completion

**Answer:** C

#### NEW QUESTION 141

Which of the following is the task of a Tester?

- A. Interaction with the Test Tool Vendor to identify best ways to leverage test tool on the project.i
- B. Prepare and acquire Test Dataii
- C. Implement Tests on all test levels, execute and log the tests.i
- D. Create the Test Specifications
- E. i, ii, iii is true and iv is false
- F. ii, iii, iv is true and i is false
- G. i is true and ii, iii, iv are false
- H. iii and iv is correct and i and ii are Incorrect

**Answer:** B

#### NEW QUESTION 146

Which of the following is the main purpose of the component build and integration strategy?

- A. to ensure that all of the small components are tested
- B. to ensure that the system interfaces to other systems and networks
- C. to ensure that the integration testing can be performed by a small team
- D. to specify how the software should be divided into components
- E. to specify which components to combine when, and how many at once

**Answer:** E

#### NEW QUESTION 150

Which of the following is most likely to be performed by developers?

- A. Technical review of a functional specification.
- B. Walkthrough of a requirements document.
- C. Informal review of a program specification.
- D. Static analysis of a software mode

**Answer:** D

#### Explanation:

Static analysis is done almost exclusively by developers. The other review types would be performed using a combination of developers, testers and other interested stakeholders.

#### NEW QUESTION 151

The selection of test cases for regression testing..?

- A. Requires knowledge on the bug fixes and how it affect the system
- B. Includes the area of frequent defects
- C. Includes the area which has undergone many/recent code changes
- D. All of the above

**Answer:** D

#### NEW QUESTION 156

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 161

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 166

Which of the following could be a disadvantage of independent testing?

- A. Developer and independent testing will overlap and waste resources.
- B. Communication is limited between independent testers and developers.

- C. Independent testers are too slow and delay the project schedule.
- D. Developers can lose a sense of responsibility for quality

**Answer:** D

#### NEW QUESTION 171

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 174

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 178

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 179

The purpose of exit criteria is:

- A. Define when to stop testing
- B. End of test level
- C. When a set of tests has achieved a specific pre condition
- D. All of the above

**Answer:** D

#### NEW QUESTION 184

Which of the following statements are true?

- (i) For every development activity there is a corresponding testing activity.
- (ii) Each test level has the same test objectives.
- (iii) The analysis and design of tests for a given test level should begin after the corresponding development activity.
- (iv) Testers should be involved in reviewing documents as soon as drafts are available in the development life cycle.

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

**Answer:** D

#### Explanation:

- Option (ii) is incorrect: each test level has a different objective.
- Option (iii) is also incorrect: test analysis and design should start once the documentation has been completed.

#### NEW QUESTION 186

Which is not in sequence in 11 Step Software Testing process..?

- A. Assess development plan and status
- B. Develop the test plan
- C. Test software design
- D. Test software requirement

**Answer:** C

#### NEW QUESTION 189

One of the roles in a review is that of moderator, which of the following best describes this role?

- A. Plans the review, runs the review meeting and ensures that follow-up activities are completed.
- B. Allocates time in the plan, decides which reviews will take place and that the benefits are delivered.
- C. Writes the document to be reviewed, agrees that the document can be reviewed, and updates the document with any changes.
- D. Documents all issues raised in the review meeting, records problems and open point

**Answer:** A

#### NEW QUESTION 194

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 198

Independent Verification & Validation is:

- A. Done by the Developer
- B. Done by the Test Engineers
- C. Done By Management
- D. Done by an Entity Outside the Project's sphere of influence

**Answer:** D

#### NEW QUESTION 201

Which of the following characteristics of good testing apply to any software development life cycle model?

- A. Acceptance testing is always the final test level to be applied.
- B. All test levels are planned and completed for each developed feature.
- C. Testers are involved as soon as the first piece of code can be executed.
- D. For every development activity there is a corresponding testing activity

**Answer:** D

#### NEW QUESTION 204

What is important to do when working with software development models?

- A. To adapt the models to the context of project and product characteristics.
- B. To choose the waterfall model because it is the first and best proven model.
- C. To start with the V-model and then move to either iterative or incremental models.
- D. To only change the organization to fit the model and not vice versa

**Answer:** A

#### NEW QUESTION 206

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 208

Which activities form part of test planning?

- i) Developing test cases.
- ii) Defining the overall approach to testing.
- iii) Assigning resources.
- iv) Building the test environment.
- v) Writing test conditions.

- A. i, ii & iv are true, iii & v are false.
- B. ii & iii are true, i, iv & v are false.

- C. iv & v are true, i, ii & iii are false.  
D. i, ii & iii are true iv & v are fals

**Answer:** B

#### NEW QUESTION 209

Which of the following is not a quality characteristic listed in ISO 9126 Standard?

- A. Functionality  
B. Usability  
C. Supportability  
D. Maintainability

**Answer:** C

#### NEW QUESTION 210

Which pair of definitions is correct?

- A. Regression testing is checking that the reported defect has been fixed; retesting is testing that there are no additional problems in previously tested software.  
B. Regression testing is checking there are no additional problems in previously tested software; retesting enables developers to isolate the problem.  
C. Regression testing involves running all tests that have been run before; retesting runs new tests.  
D. Regression testing is checking that there are no additional problems in previously tested software, retesting is demonstrating that the reported defect has been fixed.

**Answer:** D

#### Explanation:

Regression testing is testing that nothing has regressed. Retesting (or confirmation testing) confirms the fix is correct by running the same test after the fix has been made. No other option has both of these as true.

#### NEW QUESTION 215

Which of the following has the typical formal review activities in the correct sequence?

- A. Kick-off, review meeting, planning, follow-up.  
B. Kick-off, planning, review meeting, re-work.  
C. Planning, kick-off, individual preparation, review meeting.  
D. Planning, individual preparation, follow-up, re-work.

**Answer:** C

#### Explanation:

The correct sequence is: planning, kick-off, individual preparation, review meeting, re-work, follow-up. All of the other options have either the activities in the wrong order or activities missing from the strict flow.

#### NEW QUESTION 217

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 218

Failure is

- A. Incorrect program behavior due to a fault in the program  
B. Bug found before product Release  
C. Bug found after product Release  
D. Bug found during Design phase

**Answer:** A

#### NEW QUESTION 219

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 222



One Key reason why developers have difficulty testing their own work is:

- A. Lack of technical documentation
- B. Lack of test tools on the market for developers
- C. Lack of training
- D. Lack of Objectivity

**Answer:** C

#### NEW QUESTION 223

What do static analysis tools analyze?

- A. Design
- B. Test cases
- C. Requirements
- D. Program code

**Answer:** D

#### NEW QUESTION 226

The purpose of requirement phase is:

- A. To freeze requirements
- B. To understand user needs
- C. To define the scope of testing
- D. All of the above

**Answer:** D

#### NEW QUESTION 231

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 236

Which of the following statements are correct for walkthroughs?

- (i) Often led by the author.
- (ii) Documented and defined results.
- (iii) All participants have defined roles.
- (iv) Used to aid learning.
- (v) Main purpose is to find defects.

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

**Answer:** C

#### NEW QUESTION 237

Incidents would not be raised against

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

**Answer:** D

#### NEW QUESTION 238

What is a test condition?

- A. A statement of test objectives and test ideas on how to test.
- B. An item or event that could be verified by one or more test cases.
- C. The process of identifying differences between the actual results and the expected results for a test.
- D. All documents from which the requirements of a component or system can be inferred.



**Answer:** B

#### NEW QUESTION 242

Equivalence Partitioning is best defined as:

- A. An analysis technique that divides inputs into groups that are expected to exhibit similar behaviors.
- B. Applying to time-related data classes only.
- C. A form of white-box testing.
- D. A method to reduce test coverag

**Answer:** A

#### NEW QUESTION 246

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 251

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 253

An iPhone application identifies and counts all purchases of a particular product from a shopping website. The application incorrectly counts purchase attempts by including both failed attempts, and also those where the purchase was terminated by the user before completion. Testing has identified that the problem was located in the 'purchase identification' module, where the first stage in the purchasing process was counted, rather than a successful confirmed purchase. Which of the following statements correctly identifies what has happened? [K2]

- A. The application failed because of a defect in the purchase identification module caused by a programmer mistake or an error in the specification.
- B. An error by the programmer led to a mistake in the purchase identification module and this caused a defect in the application
- C. A defect in the purchase identification module caused by a mistake in the module specification led to a defect in the overall application
- D. A bug in the purchase identification module caused a fault in the application

**Answer:** A

#### NEW QUESTION 257

Which of the following risks represents the highest level of risk to the project?

- A. Likelihood of failure = 1%, potential cost of impact = \$1m.
- B. Likelihood of failure = 10%, potential cost of impact = \$500,000.
- C. Likelihood of failure = 20%, potential cost of impact = \$150,000.
- D. Likelihood of failure = 5%, potential cost of impact = \$500,000.

**Answer:** B

#### NEW QUESTION 261

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 265

What other details should be included in the following incident report when it is first submitted? Date of Issue: 23/11/05 Severity: P1  
Build: Version15.6  
Details: Expected field to be limited to 15 chars, able to enter 27

- A. Suggested solution, priority and number of defects assigned to this developer.
- B. Status of the incident, degree of impact, Test Case Number.
- C. History, related defects and expected fix time.
- D. Line of code, number of defects found, time of da

**Answer:** B

**NEW QUESTION 269**

What is static analysis?

- A. The decision between using white or black box test techniques.
- B. Executing software to validate the most common path through the code.
- C. A technique to find defects in software source code and software models, performed without executing code.
- D. It is a testing technique used during system testin

**Answer:** C

**NEW QUESTION 273**

Which of the following is a white box testing design characteristic?

- A. To be based on specifications
- B. To be based on an analysis of the test basis documentation
- C. To be based on an analysis of the structure of the component or system
- D. To include both functional and non-functional testing

**Answer:** C

**NEW QUESTION 275**

Which of the following best describes the Black-box technique?

- A. It uses decision coverage for completeness.
- B. It ensures all possible branches in the code are tested.
- C. It is based on the internal structure of the system.
- D. It can be done without reference to the internal structure of the component or syste

**Answer:** D

**NEW QUESTION 279**

Which of the following test design techniques is not a black box technique?

- A. Equivalence partitioning
- B. State transition testing
- C. Boundary value analysis
- D. Statement coverage

**Answer:** D

**NEW QUESTION 282**

Which of the following would NOT be a typical target of testing support tools?

- A. Automate activities that require significant resources when done manually
- B. Automate activities that cannot be executed manually
- C. Automate repetitive tasks
- D. Automating repetitive inspections

**Answer:** D

**NEW QUESTION 286**

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 290**

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 291

Which TWO of the following test tools would be classified as test execution tools? [K2]

- A. Test data preparation tools
- B. Test harness
- C. Review tools
- D. Test comparators
- E. Configuration management tools
- F. a and b
- G. c and d
- H. c and e
- I. b and d

**Answer: D**

#### NEW QUESTION 296

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 297

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 301

Which of the following is a valid objective of testing? [K1]

- A. Correcting defects
- B. Locating defects in the code
- C. Preventing defects
- D. Ensuring no defects are present

**Answer: C**

#### NEW QUESTION 304

Which of the following is a consideration when deploying test execution tools? [K1]

- A. Data-driven testing cannot be used with test execution tools
- B. Recorded manual tests may become unstable in use
- C. Keyword-driven testing cannot be used with test execution tools
- D. Expected results for tests are not required because the tool generates expected results

**Answer: B**

#### NEW QUESTION 306

Test objectives for systems testing of a safety critical system include completion of all outstanding defect correction. Regression testing is required following defect correction at all test levels. Which TWO of the following metrics would be MOST suitable for determining whether the test objective has been met? [K2]

- A. Regression tests run and passed in systems testing
- B. Incidents closed in systems testing
- C. Planned tests run and passed in system testing
- D. Planned tests run and passed at all levels of testing
- E. Incidents raised and closed at all levels of testing
- F. a and e
- G. b and c
- H. d and e
- I. a and b

**Answer: A**

#### NEW QUESTION 311

What factors should be considered to determine whether enough testing has been performed? (i)The exit criteria. (ii)The budget. (iii)How big the test team is. (iv)The product's risk profile. (v)How good the testing tools are. (vi)Sufficient details of the system status to allow decisions

- A. i and ii and iv and vi
- B. i and ii and iii and vi
- C. ii and iii and iv and v
- D. i and ii and v and vi

**Answer:** A

#### NEW QUESTION 314

Which from the following list are typically found to enable the review process to be successful? [K2]

- A. Each review has clear defined objectives
- B. The lower the number of defects, the better the review process
- C. The right people for the review objective are involved
- D. There is an emphasis on learning and process improvement
- E. Management are not involved in the process at all
- F. Checklists should not be used, as these slow down the process
- G. Defects found are welcomed and expressed objectively
- H. a, f and g.
- I. b, c and f.
- J. a, c and d.
- K. d, e and

**Answer:** C

#### NEW QUESTION 319

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

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

**Answer:** B

#### NEW QUESTION 322

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 325

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 330

From the following list, which of the following apply to experience-based techniques? [K2]

- A. Test cases are derived from a model of the problem to be solved or the software
- B. Test cases are derived from the knowledge of the testers
- C. The knowledge of testers, developers and users is used to drive testing
- D. The internal structure of the code is used to derive test cases
- E. a and b.
- F. c and d.
- G. a and d.
- H. b and

**Answer:** D

#### NEW QUESTION 333

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 338

Which of the following are valid test objectives? (i)Finding defects.

(ii)Gaining confidence about the level of quality and providing information. (iii)Preventing defects. (iv)Debugging the code.

- A. i, ii and iii
- B. i, ii and iv
- C. ii and iii
- D. i and iv

**Answer:** A

#### NEW QUESTION 341

Consider the following pseudo code:

1. Begin
2. Input X, Y
3. If  $X > Y$
4. Print (X, 'is greater than', Y)
5. Else
6. Print (Y, 'is greater than or equal to', X)
7. EndIf
8. End

What is the minimum number of test cases required to guarantee both 100% statement coverage and 100% decision coverage?

- A. Statement coverage = 3, Decision coverage = 3
- B. Statement coverage = 2, Decision coverage = 2
- C. Statement coverage = 1, Decision coverage = 2
- D. Statement coverage = 2, Decision coverage = 1

**Answer:** B

#### NEW QUESTION 346

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 349

A new testing tool has been selected for an organisation and a pilot project has successfully completed. The next step is to deploy the tool within the organization.

What is a key success factor in tool deployment?

- A. Estimate a cost-benefit ratio based on a firm business case
- B. Determine whether benefits will be achieved at reasonable cost
- C. Provide support for the test team using the tool

D. Assessment of organisational maturity, strengths and weaknesses

**Answer:** A

#### NEW QUESTION 350

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 351

Which of the following options BEST explain the pesticide paradox principle of testing?

- A. If we do not regularly review and revise our tests, we'll stop finding defects
- B. Repeatedly running a set of tests will ensure that a system is defect free
- C. Defects are, paradoxically, often contained in a small number of modules
- D. Testing, like spraying pesticide, is an effective bug / defect removal activity

**Answer:** C

#### NEW QUESTION 354

A booking system for a city bus service prices its fares according to the time of travel:

- Peak-time tariff starts at 0600 and finishes at 1000 am
- Off-peak tariff applies during all other times of service
- The bus service does not operate between 2300 and the start of the next day's peak service Note that all times mentioned are inclusive.

When applying the equivalence partitioning test design technique, which of the following options, shows test case inputs that each fall into a different equivalence partition?

- A. 0600, 1000, 1200
- B. 1001, 1300, 2259
- C. 0100, 0800, 2200
- D. 2400, 1000, 2301

**Answer:** D

#### NEW QUESTION 357

A system requirement states that up to 100 users should be able to carry out a transaction, with responses returned within 5 seconds.

What type of non-functional testing would you carry out to verify these requirements?

- A. Stress testing
- B. Maintenance testing
- C. Load testing
- D. Usability testing

**Answer:** B

#### NEW QUESTION 359

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 360

Debugging and Testing are key activities in the software development lifecycle. Which of the following are 'Debugging' activities?

- a) Identifying, a failure
- b) Locating the cause of failure
- c) Fixing the defect
- d) Checking the fix has resolved the failure

- A. a & d
- B. a & b
- C. b & c
- D. c & d

**Answer:** A

#### NEW QUESTION 362



Which of the following would you NOT expect to see on an incident report from test execution?

- A. The version(s) of the software under test
- B. The test execution schedule
- C. Expected results and actual results
- D. Precise steps to reproduce the problem

**Answer:** D

#### NEW QUESTION 363

A garden irrigation system allows the user to specify 2 inputs:

1. Frequency - The number of times the system should be automatically switched on per day; minimum once per day, maximum 5 times
  2. Duration - The duration of operation, in whole minutes, each time it is switched on; ranging from 1 to 60
- Applying 2-value boundary value analysis which of the following options has the correct test set of valid and invalid boundary values?

- A. Frequency 1, 5; Duration 1, 60
- B. Frequency 0, 1, 5, 6; Duration 59 seconds, 1 minute, 60 minutes, 60 minutes 1 second
- C. Frequency 0, 1, 5, 6; Duration 0, 1, 30, 60, 61
- D. Frequency 0, 1, 2, 5, 6; Duration 0, 1, 30, 60, 61

**Answer:** B

#### NEW QUESTION 368

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 372

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 374

You have been asked to improve the way test automation tools are being used in your company. Which one of the following is the BEST approach?

- A. Selecting and automating scripts that test new functionality to find the most defects
- B. Using a keyword-driven testing approach to separate the actions and data from the tool's script
- C. Ensuring that all data, inputs and actions are stored in the tool's script for ease of maintenance
- D. Keeping expected results separate from the automation tool to allow the testers to check the results

**Answer:** A

#### NEW QUESTION 376

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 381

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