

# iSQI

## Exam Questions CTFL-001

ISTQB Certified Tester Foundation Level



#### NEW QUESTION 1

- (Topic 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

- (Topic 1)

Considerable attention will be given in this project to defining exit criteria and on reporting back on their status. Which combination of TWO exit criteria from the list would be best to use? 1 credit

- A. Total number of defects foundI
- B. Percentage of test cases executedII
- C. Total test effort planned versus total actual test effort spentI
- D. Defect trend (number of defects found per test run over time
- E. (i) and (ii)
- F. (i) and (iv)
- G. (ii) and (iii)
- H. (ii) and (iv)

**Answer: D**

#### NEW QUESTION 3

- (Topic 2)

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

- (Topic 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 5

- (Topic 4)

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 test.

**Answer: AB**

#### NEW QUESTION 6

- (Topic 4)

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 grade.

**Answer: C**

#### NEW QUESTION 7

- (Topic 6)

Which of the following team roles would be most appropriate to enhance the team and why? 2 credits

- A. A person with the ability to complete tasks
- B. A quality assurance officer
- C. A person with in-depth technical skills
- D. A person who brings new ideas to the team

**Answer:** D

#### NEW QUESTION 8

- (Topic 7)

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 9

- (Topic 8)

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 10

- (Topic 9)

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

**Answer:** CE

#### NEW QUESTION 10

- (Topic 10)

Why might a RAD approach be a better option for the test manager rather than a sequential development? 2 credits

- A. It will extend the development team's abilities and enhance future delivery capabilities.
- B. It will allow the marketing, clerical and testing staff to validate and verify the early screen prototypes.
- C. Time-box constraints will guarantee code releases are delivered on schedule.
- D. More time can be spent on test execution as less formal documentation is required.

**Answer:** B

#### NEW QUESTION 12

- (Topic 12)

Which of the following types of test tool are most likely to include traceability functions?

(i) Performance testing tool (ii) Requirements management tool (iii) Configuration management tool (iv) Static analysis tool

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

D. (iii) and (iv)

**Answer: C**

**Explanation:**

Requirements management tools (ii) have traceability because they enable test conditions and subsequently test scripts and defects to be traced back to requirements. Configuration management tools (iii) also need to trace the appropriate version of a test script to the release or version of a system or module. Performance monitoring tools (i) and static analysis tools (iv) are designed for specific objectives. Neither of these tools particularly need traceability functions.

**NEW QUESTION 15**

- (Topic 12)

Which of the following are examples of iterative development models?

- (i) V-model
- (ii) Rapid Application Development model
- (iii) Waterfall model
- (iv) Agile development model

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

**Answer: C**

**Explanation:**

The other two models are sequential models.

**NEW QUESTION 20**

- (Topic 12)

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 23**

- (Topic 12)

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 27**

- (Topic 12)

A software component has the code shown below:

```
Program BiggestA, Biggest: Integer Begin
Read A Biggest = 10 While A > 0 Do
If A > Biggest Then Biggest = A Endif
Read A Enddo End
```

The component has exit criteria for component testing that include 100% statement coverage. Which of the following test cases will satisfy this criterion?

- A. 10, 0
- B. 10, 5, 0
- C. 10, 11, 0

**Answer: D**

**NEW QUESTION 29**

- (Topic 12)

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 32**

- (Topic 12)

What do static analysis tools analyze?

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

**Answer: D**

### NEW QUESTION 33

- (Topic 12)

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 37

- (Topic 12)

Important consequences of the impossibility of complete testing are:

- A. We can never be certain that the program is bug free.
- B. We have no definite stopping point for testing, which makes it easier for some managers to argue for very little testing.
- C. We have no easy answer for what testing tasks should always be required, because every task takes time that could be spent on other high importance tasks.
- D. All of the above

**Answer: D**

### NEW QUESTION 42

- (Topic 12)

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 43

- (Topic 12)

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 correctly.

**Answer: C**

### NEW QUESTION 45

- (Topic 12)

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 50

- (Topic 12)

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 53

- (Topic 12)

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 correctly.

**Answer: B**

### NEW QUESTION 56

- (Topic 12)

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 57

- (Topic 12)

Consider the following pseudo code:

```
1 Begin
2 Read Time
3 If Time < 12 Then
4 Print(Time, "am")
5 Endif
6 If Time > 12 Then
7 Print(Time 12, "pm")
8 Endif
9 If Time = 12 Then
10 Print (Time, "noon")
11 Endif
12 End
```

How many test cases are needed to achieve 100 per cent decision coverage?

- A. 1
- B. 2
- C. 3
- D. 4

**Answer: C**

#### Explanation:

The three decisions are in sequence and the conditions are all mutually exclusive (if any one is true the others must be false). Hence a test case that makes the first decision true will make the second and third decisions false and so on.

So test case 1 (say Time = 6) would exercise the path True, False, False, test case 2 (say Time = 15) would exercise the path False, True, False. Test case 3 would have to be Time

= 12. This combination achieves 100 per cent decision coverage because each decision has been exercised through its true and its false outcomes.

### NEW QUESTION 61

- (Topic 12)

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 model.

**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 62

- (Topic 12)

A system is designed to accept values of examination marks as follows:

Fail:0–39 inclusive Pass:40–59 inclusive Merit:60–79 inclusive Distinction:80–100 inclusive

In which of the following sets of values are all values in different equivalence partitions?

- A. 25, 40, 60, 75
- B. 0, 45, 79, 87
- C. 35, 40, 59, 69
- D. 25, 39, 60, 81

**Answer: B**

**NEW QUESTION 65**

- (Topic 12)

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 failures.

**Answer: B**

**NEW QUESTION 67**

- (Topic 12)

Security falls under..?

- A. compliance testing
- B. disaster testing
- C. verifying compliance to rules
- D. functional testing
- E. ease of operations

**Answer: A**

**NEW QUESTION 72**

- (Topic 12)

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 77**

- (Topic 12)

Which of the following is NOT part of configuration management..?

- A. Status accounting of configuration items
- B. Auditing conformance to ISO9001
- C. Identification of test versions
- D. Record of changes to documentation over time
- E. Controlled library access

**Answer: B**

**NEW QUESTION 81**

- (Topic 12)

Statement Coverage will not check for the following:

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

**Answer: A**

**NEW QUESTION 84**

- (Topic 12)

What benefits do static analysis tools have over test execution tools?

- A. Static analysis tools find defects earlier in the life cycle.
- B. Static analysis tools can be used before code is written.
- C. Static analysis tools test that the delivered code meets business requirements.
- D. Static analysis tools are particularly effective for regression testing.

**Answer: A**

**NEW QUESTION 88**

- (Topic 12)

How can test execution tools be of most benefit during exploratory testing?

- A. They can record user actions so that defects are easier to recreate.
- B. They can be used to perform the regression aspects of exploratory testing.
- C. They can help to mitigate the risk of low test coverage.

D. They can use data-driven tests to increase the amount of exploratory testing performed.

**Answer:** A

**Explanation:**

Exploratory testing is used when it is unclear what the system is supposed to do. Therefore test execution tools are of little use because expected results cannot be predicted.

However, the record feature of a test execution tool can be used to log the actions performed so that defects can be recreated (option (A)) and rectified more easily.

**NEW QUESTION 91**

- (Topic 12)

What is the purpose of a test completion criterion?

- 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 determine when to stop testing

**Answer:** B

**NEW QUESTION 95**

- (Topic 12)

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 99**

- (Topic 12)

A new system is about to be developed. Which of the following functions has the highest level of risk?

- A. Likelihood of failure = 20%; impact value = £100,000
- B. Likelihood of failure = 10%; impact value = £150,000
- C. Likelihood of failure = 1%; impact value = £500,000
- D. Likelihood of failure = 2%; impact value = £200,000

**Answer:** A

**Explanation:**

In (B) the product of probability × impact has the value £15,000; in (C) the value is £5,000 and in (D) it is £4,000. The value of £20,000 in (A) is therefore the highest.

**NEW QUESTION 104**

- (Topic 12)

A bug or defect is:

- A. A mistake made by a person;
- B. A run-time problem experienced by a user;
- C. The result of an error or mistake;
- D. The result of a failure, which may lead to an error?

**Answer:** C

**NEW QUESTION 107**

- (Topic 12)

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 112**

- (Topic 12)

Acceptance test cases are based on what?

- A. Requirements
- B. Design
- C. Code

D. Decision table

**Answer:** A

**NEW QUESTION 115**

- (Topic 12)

Which of the following statements are TRUE? A. Regression testing and acceptance testing are the same. B. Regression tests show if all defects have been resolved. C. Regression tests are typically well-suited for test automation. D. Regression tests are performed to find out if code changes have introduced or uncovered defects. E. Regression tests should be performed in integration testing.

- A. A, C and D and E are true; B is false.
- B. A, C and E are true; B and D are false.
- C. C and D are true; A, B and E are false.
- D. B and E are true; A, C and D are false.

**Answer:** C

**NEW QUESTION 120**

- (Topic 12)

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 points.

**Answer:** A

**NEW QUESTION 122**

- (Topic 12)

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 127**

- (Topic 12)

Which of the following is in the correct order (typically)?

- A. Unit testing, system testing, acceptance testing, maintenance testing.
- B. System testing, unit testing, acceptance testing, maintenance testing.
- C. Acceptance testing, system testing, maintenance testing, unit testing.
- D. Unit testing, maintenance testing, system testing, acceptance testing.

**Answer:** A

**NEW QUESTION 129**

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