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CTFL\_001

ISTQB Certified Tester Foundation Level

(Syllabus 2011)

Q&A 40

## General Guidelines for Preparing ISTQB Exam

- 40 Questions
- 65% pass mark
- 60 minutes
- Multiple choice questions
- Only one correct answer
- No negative marking
- All questions from syllabus (Syllabus 2011)

## About as:

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### Question No. 01

The four test levels defined for a common V-model testing approach are:

Number of correct answers: 1

- A. Unit, integration, system and maintenance
- B. Functional glass box, incremental and maintenance
- C. Component, integration, system and acceptance
- D. Unit, Component, functional and alpha/beta

**Answer: C**

### Question No. 02

Typically, exit criteria may consist of:

Number of correct answers: 1

- A. Defining the amount, level of detail structure, and templates for the test documentation
- B. Estimates of defect density or reliability measures
- C. Adequacy of the test approaches taken
- D. Discussions on disaster recovery

**Answer: B**

### Question No. 03

A data driven approach to test automation design is best described as:

Number of correct answers: 1

- A. Using action words to described the actions to be taken, the test data
- B. Scaling to support large numbers of users
- C. Being based on Equivalence Partitioning testing techniques
- D. Separating out the test data inputs and using a generic script that can read the test data and perform the same test steps with different data

**Answer: D**

### Question No. 04

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

Number of correct answers: 1

- 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:**

**Question No. 05**

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

Number of correct answers: 1

- 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**

**Question No. 06**

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

Number of correct answers: 1

- 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 or C**

**Question No. 07**

Consider the following pseudo code

1. **Begin**
2. Read Gender
3. \_Print "Dear"
4. **If** Gender = 'female'
5. Print ("MS")
6. **Else**

7. \_Print ("MS")

8. Endif

9. End

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

Number of correct answers: 1

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

**Answer:**

### Question No. 08

**What is static analysis?**

Number of correct answers: 1

- 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 defect in software source code and software models, performed without executing code.
- D. It is a testing technique used during system testing.

**Answer: C**

### Question No. 09

**Component testing may include:**

Number of correct answers: 1

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

**Answer: D**

### Question No. 10

**Which type of review has the following main purposes:**

**Discussing, making decisions, evaluating alternatives, finding defects, solving technical problems and checking conformance to specifications, plans, regulations, and standards?**

Number of correct answers: 1

- A. Technical Review
- B. Inspection
- C. Walkthrough
- D. Informal review

**Answer: A**

### Question No. 11

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?

Number of correct answers: 1

- 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**

### Question No. 12

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

Number of correct answers: 1

- 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 system.

**Answer: D**

### Question No. 13

System testing is:

Number of correct answers: 1

- 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**

#### Question No. 14

A Client-server system for a web development must support a minimum of 200 enquires 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?

Number of correct answers: 1

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

**Answer: C**

#### Question No. 15

When the Organisation Considers the use of testing tools, they should:

Number of correct answers: 1

- A. Use a tool in order help define a good test process because the tool will force process repeatability and therefore enforce good test process.
- B. Always start by bringing in automated test execution tools as these tools have the greatest return on investment and therefore should be introduced first.
- C. Perform analysis of the test process and then assess whether it can be supported through the introduction of tool support.
- D. Allow the developers to select the testing tools because tools are technical and developers have the appropriate skills to advise on test tool selection and configuration.

**Answer: C**

#### Question No. 16

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

Number of correct answers: 1

- A. Equivalence partitioning



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

**Answer: D**

### Question No. 17

**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.

Number of correct answers: 1

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

**Answer: A**

### Question No. 18

**What can testing demonstrate?**

Number of correct answers: 1

- A. Testing can demonstrate that there are no defects.
- B. Testing can demonstrate that there are defects.
- C. Testing can demonstrate that the software is correct.
- D. Testing can demonstrate that there are no hidden defects in the software.

**Answer: A**

### Question No. 19

**Equivalence Partitioning is best defined as:**

Number of correct answers: 1

- A. An analysis technique that divides inputs into group 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 coverage.

**Answer: A**

### Question No. 20

**Dynamic analysis tools are used to:**

Number of correct answers: 1

- 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 exercised.

**Answer: C**

### Question No. 21

**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: Version 15.6**

**Details: Expected field to be limited to 15 chars, able to enter 27**

Number of correct answers: 1

- A. Suggested solution, Priority and numbers 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 day.

**Answer: B**

### Question No. 22

**Which of the following are Exit Criteria?**

Number of correct answers: 1

- A. Acceptance criteria, completion criteria, pass/fail criteria.
- B. Coverage of code schedule, estimates of defect density.
- C. The last executable statement within a component.
- D. Cost overruns.

**Answer: B**

### Question No. 23

**What is decision table testing?**



Number of correct answers: 1

- 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 requirements.

**Answer: C not Sure**

### Question No. 24

**Of the following, select the best description of the fundamental test process:**

Number of correct answers: 1

- A. Planning and control, analysis, design, implementation, execution, evolution of exit criteria and reporting, test closure.
- B. Executing test, identifying and recording defects and preparing recommendation and closure reports.
- C. Controls, preparation of test cases, execution of test cases, execution of regression packs, communicating with developers, writing recommendations for release.
- D. Static testing, dynamic testing, defect reporting, reporting and closure.

**Answer: A**

### Question No. 25

**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?**

Number of correct answers: 1

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

**Answer: D**

### Question No. 26

**What is the value of static code analysis?**

Number of correct answers: 1

- 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**

**Question No. 27**

**Which of the following statement about use-case testing are most accurate?**

- (i) In a use-case diagram an actor represents a type of user.
- (ii) Use-cases are the most common test basis for unit testing.
- (iii) A use-case describes interactions between actors.
- (iv) An actor is always a human user that interacts with the system.
- (v) Test cases can be based on use-case scenarios.
- (vi) Use-case testing will often identify gaps not found by testing individual components.

Number of correct answers: 1

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

**Answer: B**

**Question No. 28**

**It is recommended to perform exhaustive tests for covering all combinations of inputs and preconditions.**

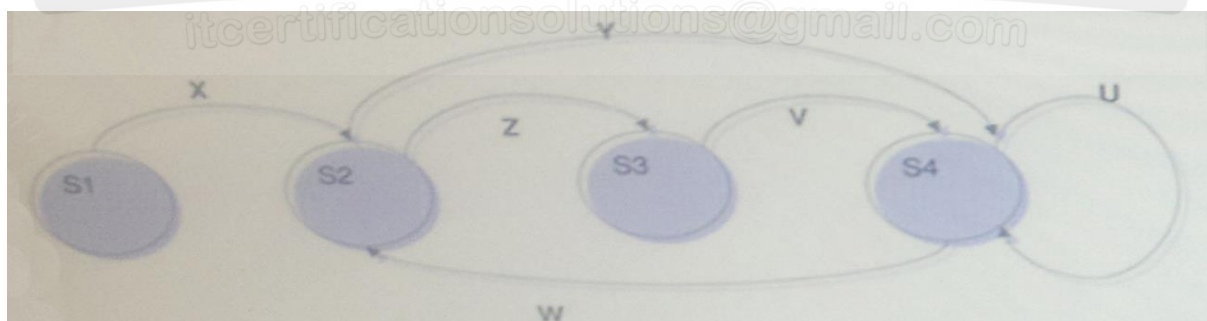
Number of correct answers: 1

- A. Yes, it's strongly recommended
- B. No, risk analysis and priorities should be used to focus testing efforts
- C. Yes, and it's also necessary to include all the exit combinations
- D. Only the expert testers can make exhaustive tests

**Answer: B**

**Question No. 29**

**Given the following state Transition diagram, match the test cases below with the relevant set of state transitions.**



- (i) X-Z-V-W
- (ii) W-Y-U-U

Number of correct answers: 1

- A. = S1 - S2 - S3 - S4 - S2 and (ii) = S4 - S2 - S4 - S4 - S4
- B. = S1 - S2 - S3 - S4 - S4 and (ii) = S2 - S4 - S4 - S4 - S2
- C. = S2 - S3 - S4 - S2 - S2 and (ii) = S4 - S2 - S4 - S4 - S4
- D. = S2 - S3 - S4 - S4 - S2 and (ii) = S2 - S3 - S4 - S4 - S4

**Answer: A**

### Question No. 30

A System calculates the amount of customs duty to be paid:

- No duty is paid on goods value up to, and including, \$2,000.
- The next \$8,000 is taxed at 10%.
- The next \$20,000 after that is taxed at 12%
- Any further amount after that is taxed at 17%

To the nearest \$, which of these groups of numbers fall into three DIFFERENT equivalence classes?

Number of correct answers: 1

- A. \$20,000 \$20,001 \$30,001
- B. \$2,000 \$2,001 \$10,000
- C. \$2,000 \$8,000 \$20,000
- D. \$1,500 \$2,000 \$10,000

**Answer:**

### Question No. 31

What are metrics NOT used for?

Number of correct answers: 1

- A. To identify the percentage of work done in test environment preparation.
- B. To identify the percentage of work done in test case preparation.
- C. To apply the RAD development model.
- D. To measure whether dates of test milestones were met.

**Answer: C**

### Question No. 32

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

Number of correct answers: 1

- 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 function and non-functional testing.

**Answer: C**

### Question No. 33

In a system design 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?

Number of correct answers: 1

\$28,000

\$1,500

\$33,501

\$5,000

**Answer: C**

### Question No. 34

What is a test condition?

Number of correct answers: 1

- A. A Statement of test objectives and test ideas on how to test.
- B. An item 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** itcertificationsolutions@gmail.com

### Question No. 35

Which of the following test organizations has the highest level of independence?

Number of correct answers: 1

- A. Independent testers within the development teams

- B. Independent testers from the user community.
- C. Independent test specialists for specific test types, such as usability, performance or certification test specialists.
- D. Code tested by another developer from the development team

**Answer: A**

### Question No. 36

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

Number of correct answers: 1

- 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**

### Question No. 37

What type of design techniques is the most effective in testing screen-dialog flows?

Number of correct answers: 1

- A. Use case testing.
- B. Boundary value testing.
- C. Statement testing and coverage.
- D. State transition testing.

**Answer: D**

### Question No. 38

What content would be in an incident report if that incident report was on the IEEE 829 standard for software test documentation?

- (i) Identification of configuration item of the software or system.
- (ii) Software or system lifecycle process in which the incident was observed.
- (iii) Description of the anomaly to enable reproduction of the incident.
- (iv) Number of occurrences of the incident.
- (v) Classification of the cause of the incident for metrics and reporting purposes

Number of correct answers: 1

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

**Answer: A**

**Question No. 39**

**Testers are often seen as the bearer of unwanted news regarding defects. What are effective ways to improve the communication and relationship between testers and others?**

- a) Communicate factual information in a constructive way.
- b) Try to understand how the other persona feels and why they react the way they do.
- c) Always outsource testing activities.
- d) Never record information that could be used to apportion blame to an individual or team.

Number of correct answers: 1

- A. a and b
- B. a, b and c
- C. a, b and d
- D. a and c

**Answer: A**

**Question No. 40**

**“Experience based” test design techniques, typically....**

Number of correct answers: 1

- A. Use decision tables to generate the Boolean test conditions to be executed.
- B. Identity 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 requirements.

**Answer:**

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