

Below are some latest ISTQB certification exam questions with answers. Solve these questions and crosscheck with the answers provided at the end of this paper.

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Q. 1: Given the following code, which is true about the minimum number of test cases required for full statement and branch coverage:

```
Read P
Read Q
IF P+Q > 100 THEN
Print "Large"
ENDIF
If P > 50 THEN
Print "P Large"
ENDIF
```

- A. 1 test for statement coverage, 3 for branch coverage
- B. 1 test for statement coverage, 2 for branch coverage
- C. 1 test for statement coverage, 1 for branch coverage
- D. 2 tests for statement coverage, 3 for branch coverage
- E. 2 tests for statement coverage, 2 for branch coverage

Q. 2: The place to start if you want a (new) test tool is:

- A. Attend a tool exhibition
- B. Invite a vendor to give a demo
- C. Analyze your needs and requirements
- D. Find out what your budget would be for the tool
- E. Search the internet

Q. 3: Error guessing is best used

- A. As the first approach to deriving test cases
- B. After more formal techniques have been applied
- C. By inexperienced testers
- D. After the system has gone live
- E. Only by end users

Q. 4: Exit Criteria may consist of:

- i. Thoroughness measures, such as coverage of code, functionality or risk
 - ii. Estimates of Defect density or reliability measures.
 - iii. Residual risk such as defects not fixed or lack of test coverage in certain areas
 - iv. Verifying the Test Environment.
- A. iv is correct and i,ii,iii are incorrect.
 - B. i,ii,iii is correct and iv is incorrect
 - C. ii is correct and i,ii,iii are incorrect
 - D. iii and iv are correct and i,ii are incorrect

Q. 5: One of the fields on a form contains a text box, which accepts alphabets in lower or upper case. Identify the invalid Equivalence class value.

- A. CLASS

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- B. cLASS
- C. CLass
- D. CLa01ss

Q. 6: The Kick Off phase of a formal review includes the following:

- A. Explaining the objective
- B. Fixing defects found typically done by author
- C. Follow up
- D. Individual Meeting preparations

Q. 7: Peer Reviews are also called as :

- A. Inspection
- B. Walkthrough
- C. Technical Review
- D. Formal Review

Q. 8: Validation involves which of the following

- i. Helps to check the Quality of the Built Product
 - ii. Helps to check that we have built the right product.
 - iii. Helps in developing the product
 - iv. Monitoring tool wastage and obsolescence.
- A. Options i,ii,iii,iv are true.
 - B. ii is true and i,iii,iv are false
 - C. i,ii,iii are true and iv is false
 - D. iii is true and i,ii,iv are false.

Q. 9: Success Factors for a review include:

- i. Each Review does not have a predefined objective
 - ii. Defects found are welcomed and expressed objectively
 - iii. Management supports a good review process.
 - iv. There is an emphasis on learning and process improvement.
- A. ii,iii,iv are correct and i is incorrect
 - B. iii , i , iv is correct and ii is incorrect
 - C. i , iii , iv , ii is in correct
 - D. ii is correct

Q. 10: Which of the following helps in monitoring the Test Progress:

- i. Percentage of Test Case Execution
 - ii. Percentage of work done in test environment preparation.
 - iii. Defect Information e.g. defect density, defects found and fixed
 - iv. The size of the testing Team and skills of the engineers
- A. iv is correct and i,ii,iii are incorrect
 - B. i,ii,iii are correct and iv is incorrect
 - C. i,ii are correct and iii,iv are incorrect
 - D. i,iv are correct and ii , iii are incorrect

Q. 11: Defects discovered by static analysis tools include:

- i. Variables that are never used.
 - ii. Security vulnerabilities.
 - iii. Programming Standard Violations
 - iv. Uncalled functions and procedures
- A. i , ii,iii,iv is correct
 - B. iii ,is correct I,ii,iv are incorrect.
 - C. i ,ii, iii and iv are incorrect

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D. iv, ii is correct

Q. 12: Which of the following is true about White and Black Box Testing Technique:-

- A. Equivalence partitioning, Decision Table and Control flow are White box Testing Techniques.
- B. Equivalence partitioning, Boundary Value Analysis , Data Flow are Black Box Testing Techniques.
- C. Equivalence partitioning , State Transition , Use Case Testing are black box Testing Techniques.
- D. Equivalence Partitioning, State Transition, Use Case Testing and Decision Table are White Box Testing Techniques.

Q. 13: Which of the following techniques is NOT a black box technique?

- A. State transition testing
- B. LCSAJ (Linear Code Sequence and Jump)
- C. Syntax testing
- D. Boundary value analysis

Q. 14: Features of White Box Testing Technique:

- i. We use explicit knowledge of the internal workings of the item being tested to select the test data.
 - ii. Uses specific knowledge of programming code to examine outputs and assumes that the tester knows the path of logic in a unit or a program.
 - iii. Checking for the performance of the application
 - iv. Also checks for functionality.
- A. i, ii are true and iii and iv are false
 - B. iii is true and i,ii, iv are false
 - C. ii ,iii is true and i,iv is false
 - D. iii and iv are true and i,ii are false

Q. 15. The Provision and Management of a controlled library containing all the configurations items is called as

- A. Configuration Control
- B. Status Accounting
- C. Configuration Identification
- D. Configuration Identification

Q. 16: In foundation level syllabus you will find the main basic principles of testing. Which of the following sentences describes one of these basic principles?

- A. Complete testing of software is attainable if you have enough resources and test tools
- B. With automated testing you can make statements with more confidence about the quality of a product than with manual testing
- C. For a software system, it is not possible, under normal conditions, to test all input and output combinations.
- D. A goal of testing is to show that the software is defect free.

Q. 17: Which of the following is true

- A. Testing is the same as quality assurance
- B. Testing is a part of quality assurance
- C. Testing is not a part of quality assurance
- D. Testing is same as debugging

Q. 18: This part of a program is given:

WHILE (condition A) Do B

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END WHILE

How many decisions should be tested in this code in order to achieve 100% decision coverage?

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

Q. 19: In a flight reservation system, the number of available seats in each plane model is an input. A plane may have any positive number of available seats, up to the given capacity of the plane. Using Boundary Value analysis, a list of available - seat values were generated. Which of the following lists is correct?

- A. 1, 2, capacity -1, capacity, capacity plus 1
- B. 0, 1, capacity, capacity plus 1
- C. 0, 1, 2, capacity plus 1, a very large number
- D. 0, 1, 10, 100, capacity, capacity plus one

Q. 20: Which of the following is a valid collection of equivalence classes for the following problem: An integer field shall contain values from and including 1 to and including 15

- A. Less than 1, 1 through 15, more than 15
- B. Negative numbers, 1 through 15, above 15
- C. Less than 1, 1 through 14, more than 15
- D. Less than 0, 1 through 14, 15 and more

Q. 21: Which of the following is correct about static analysis tools

- A. They help you find defects rather than failures
- B. They are used by developers only
- C. They require compilation of code
- D. They are useful only for regulated industries

Q. 22: Which of the following is most often considered as components interface bug?

- A. For two components exchanging data, one component used metric units, the other one used British units
- B. The system is difficult to use due to a too complicated terminal input structure
- C. The messages for user input errors are misleading and not helpful for understanding the input error cause
- D. Under high load, the system does not provide enough open ports to connect to

Q. 23: Which of the following is correct about static analysis tools?

- A. Static analysis tools are used only by developers
- B. Compilers may offer some support for static analysis
- C. Static analysis tools help find failures rather than defects
- D. Static analysis tools require execution of the code to analyze the coverage

Q. 24: Which of the following list contains only non-functional tests?

- A. Interoperability (compatibility) testing, reliability testing, performance testing
- B. System testing, performance testing
- C. Load testing, stress testing, component testing, portability testing
- D. Testing various configurations, beta testing, load testing

Q. 25: Which set of metrics can be used for monitoring of the test execution?

- A. Number of detected defects, testing cost;
- B. Number of residual defects in the test object.

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- C. Percentage of completed tasks in the preparation of test environment; test cases prepared
- D. Number of test cases run / not run; test cases passed / failed

Q. 26: What test items should be put under configuration management?

- A. The test object, the test material and the test environment
- B. The problem reports and the test material
- C. Only the test object. The test cases need to be adapted during agile testing
- D. The test object and the test material

Q. 27: This part of a program is given:

WHILE (condition A)

Do B

END WHILE

How many paths should be tested in this code in order to achieve 100% path coverage?

- A. One
- B. Indefinite
- C. Two
- D. Four

Q. 28: What is the purpose of test exit criteria in the test plan?

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

Q. 29: If a program is tested and 100% condition coverage is achieved, which of the following coverage criteria is then guaranteed to be achieved?

- A. 100% branch coverage
- B. 100% condition coverage and 100% statement coverage
- C. Equivalence class and boundary value coverage
- D. No other white box coverage criterion is guaranteed to be fulfilled 100%

Q. 30: Which of the following can be root cause of a bug in a software product?

- (I) The project had incomplete procedures for configuration management.
- (II) The time schedule to develop a certain component was cut.
- (III) the specification was unclear
- (IV) Use of the code standard was not followed up
- (V) The testers were not certified

- A. (I) and (II) are correct
- B. (I) through (IV) are correct
- C. (III) through (V) are correct
- D. (I), (II) and (IV) are correct

Q. 31: Purpose of test design technique is

- A. Identifying test conditions only, not Identifying test cases
- B. Not Identifying test conditions, Identifying test cases only
- C. Identifying test conditions and Identifying test cases
- D. Identifying test conditions or Identifying test cases

Q. 32: One person has been dominating the current software process improvement meeting. Which of the following techniques should the facilitator use to bring other team members into the discussion?

- A. Confront the person and ask that other team members be allowed to express their

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opinions.

- B. Wait for the person to pause, acknowledge the person's opinion, and ask for someone else's opinion.
- C. Switch the topic to an issue about which the person does not have a strong opinion.
- D. Express an opinion that differs from the person's opinion in order to encourage others to express their ideas.

Q. 33: Stochastic testing using statistical information or operational profiles uses the following method

- A. Heuristic testing approach
- B. Methodical testing approach
- C. Model based testing approach
- D. Process or standard compliant testing approach

Q. 34: A software model that can't be used in functional testing

- A. Process flow model
- B. State transaction model
- C. Menu structure model
- D. Plain language specification model

Q. 35: Arc testing is known as

- A. Branch testing
- B. Agile testing
- C. Beta testing
- D. Ad-hoc testing

Q. 36: 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

Q. 37: The _____ technique can be used to achieve input and output coverage

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

Q. 38: The _____ testing is performed at the developing organization's site

- A. Unit testing
- B. Regression testing
- C. Alpha testing
- D. Integration testing

Q. 39: What is the main purpose of Informal review

- A. Inexpensive way to get some benefit
- B. Find defects
- C. Learning, gaining understanding, effect finding
- D. Discuss, make decisions, solve technical problems

Q. 40: Which is not a Component testing

- A. Check the memory leaks
- B. Check the robustness
- C. Check the branch coverage

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D. Check the decision tables

Q. 41: The software engineer's role in tool selection is

- A. To identify, evaluate, and rank tools, and recommend tools to management
- B. To determine what kind of tool is needed, then find it and buy it
- C. To initiate the tool search and present a case to management
- D. To identify, evaluate and select the tools

Q. 42: Testing where in we subject the target of the test , to varying workloads to measure and evaluate the performance behaviors and ability of the target and of the test to continue to function properly under these different workloads.

- A. Load Testing
- B. Integration Testing
- C. System Testing
- D. Usability Testing

Q. 43: Which of the following is the task of a Tester?

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

Q. 44: What can static analysis NOT find?

- A. The use of a variable before it has been defined
- B. Unreachable ("dead") code
- C. Memory leaks
- D. Array bound violations

Q. 45: White Box Techniques are also called as:

- A. Structural Testing
- B. Design Based Testing
- C. Error Guessing Technique
- D. Experience Based Technique

Q. 46: Reviewing the test Basis 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

Q. 47: Component Testing is also called as :-

- i. Unit Testing
- ii. Program Testing
- iii. Module Testing
- iv. System Component Testing .
- A. i,ii,iii are true and iv is false
- B. i,ii,iii,iv are false
- C. i,ii,iv are true and iii is false
- D. all of above is true

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Q. 48: 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 stakeholders.

Q. 49: Which of the following is true about Formal Review or Inspection:-
i. Led by Trained Moderator (not the author).
ii. No Pre Meeting Preparations
iii. Formal Follow up process.
iv. Main Objective is to find defects
A. ii is true and i,iii,iv are false
B. i,iii,iv are true and ii is false
C. i,iii,iv are false and ii is true
D. iii is true and i,ii,iv are false

Q. 50: The Phases of formal review process is mentioned below arrange them in the correct order.
i. Planning
ii. Review Meeting
iii. Rework
iv. Individual Preparations
v. Kick Off
vi. Follow Up
A. i, ii, iii, iv, v, vi
B. vi, i, ii, iii, iv, v
C. i, v, iv, ii, iii, vi
D. i, ii, iii, v, iv, vi

Q. 51: Testing activity which is performed to expose defects in the interfaces and in the interaction between integrated components is :
A. System Level Testing
B. Integration Level Testing
C. Unit Level Testing
D. Component Testing

Q. 52: Methodologies adopted while performing Maintenance Testing:-
A. Breadth Test and Depth Test
B. Re-testing
C. Confirmation Testing
D. Sanity Testing

Q. 53: The Switch is switched off once the temperature falls below 18 and then it is turned on when the temperature is more than 21. When the temperature is more than 21. Identify the Equivalence values which belong to the same class.
A. 12,16,22
B. 24,27,17
C. 22,23,24
D. 14,15,19

Answers:

Q.1 B
Q.2 C
Q.3 B
Q.4 B
Q.5 D
Q.6 A
Q.7 C
Q.8 B
Q.9 A
Q.10 B
Q.11 A
Q.12 C
Q.13 B
Q.14 A
Q.15 A
Q.16 C
Q.17 B
Q.18 A
Q.19 B
Q.20 A
Q.21 A
Q.22 A
Q.23 B
Q.24 C
Q.25 D
Q.26 A
Q.27 C
Q.28 A
Q.29 B
Q.30 B
Q.31 C
Q.32 B
Q.33 C
Q.34 C
Q.35 A
Q.36 D
Q.37 B
Q.38 C
Q.39 A
Q.40 D
Q.41 A
Q.42 A
Q.43 B
Q.44 C
Q.45 A
Q.46 A
Q.47 A

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Q.48 B
Q.49 B
Q.50 C
Q.51 B
Q.52 A
Q.53 C

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