

Sample Exam – Questions

Sample Exam set A
Version 1.7

ISTQB® Certified Tester Syllabus Foundation Level

Compatible with Syllabus version 2018 v3.1

International Software Testing Qualifications Board



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The ISTQB® Examination Working Group is responsible for this document.

This document is maintained by a core team from ISTQB® consisting of the Syllabus Working Group and Exam Working Group.

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Revision History

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Version	Date	Remarks
1.7	February 2, 2022	Minor changes to Questions: 3, 9, 37
1.6.1	May 12, 2021	Update to Copyright Notice Minor change to Question: 40
1.6	June 9, 2020	Major changes to Questions: 17, 32, 35 Minor changes to Questions: 40
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1.3	May 31, 2019	Minor changes to Questions 1,4,12,14,18, 20, 22, 24, 26, 27, 28, 30 Major changes to Questions: 5, 6, 8
1.2	February 16, 2019	Transfer to Sample Exam Template layout Minor changes to multiple Questions Major changes to Questions: 5,15, 18, 23, 24, 27, 30, 31, 33, 35, 37
1.1	May 11, 2018	Spelling error corrected
1.0	May 11, 2018	First issue

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Introduction

Purpose of this document

The example questions and answers and associated justifications in this sample exam have been created by a team of subject matter experts and experienced question writers with the aim of:

- Assisting ISTQB® Member Boards and Exam Boards in their question writing activities
- Providing training providers and exam candidates with examples of exam questions

These questions cannot be used as-is in any official examination.

Note, that real exams may include a wide variety of questions, and this sample exam **is not** intended to include examples of all possible question types, styles or lengths, also this sample exam may both be more difficult or less difficult than any official exam.

Instructions

In this document you may find:

- Questions¹, including for each question:
 - Any scenario needed by the question stem
 - Point value
 - Response (answer) option set
- Additional questions, including for each question [does not apply to all sample exams]:
 - Any scenario needed by the question stem
 - Point value
 - Response (answer) option set
- *Answers, including justification are contained in a separate document*

¹ In this sample exam the questions are sorted by the LO they target; this cannot be expected of a live exam.

Questions

Question #1 (1 Point)

Which one of the following answers describes a test condition?

- a) A distinguishing characteristic of a component or system
- b) A testable aspect of a component or system identified as a basis for testing
- c) The degree to which a software product provides functions which meet stated and implied needs when the software is used under specified conditions
- d) Test cases designed to execute combinations of conditions and actions resulting from them

Select ONE option.

Question #2 (1 Point)

Which of the following statements is a valid objective for testing?

- a) The test should start as late as possible so that development had enough time to create a good product
- b) To validate whether the test object works as expected by the users and other stakeholders
- c) To prove that all possible defects are identified
- d) To prove that any remaining defects will not cause any failures

Select ONE option.

Question #3 (1 Point)

Which of the following statements correctly describes the difference between testing and debugging?

- a) Testing identifies the source of defects; debugging analyzes the defects and proposes prevention activities
- b) Dynamic testing shows failures caused by defects; debugging eliminates the defects, which are the source of failures
- c) Testing removes faults; but debugging removes defects that cause the faults
- d) Dynamic testing prevents the causes of failures; debugging removes the failures

Select ONE option.

Question #4 (1 Point)

Which one of the statements below describes the most common situation for a failure discovered during testing or in production?

- a) The product crashed when the user selected an option in a dialog box
- b) The wrong version of a compiled source code file was included in the build
- c) The computation algorithm used the wrong input variables
- d) The developer misinterpreted the requirement for the algorithm

Select ONE option.

Question #5 (1 Point)

Mr. Test has been testing software applications on mobile devices for a period of 5 years. He has a wealth of experience in testing mobile applications and achieves better results in a shorter time than others. Over several months, Mr. Test did not modify the existing automated test cases and did not create any new test cases. This leads to fewer and fewer defects being found by executing the tests. What principle of testing did Mr. Test not observe?

- a) Testing depends on the environment
- b) Exhaustive testing is not possible
- c) Repeating of same tests will not find new defects
- d) Defects cluster together

Select ONE option.

Question #6 (1 Point)

In what way can testing be part of Quality Assurance?

- a) It ensures that requirements are detailed enough
- b) Testing reduces the risk of poor software quality
- c) It ensures that standards in the organization are followed
- d) It measures the quality of software in terms of number of executed test cases

Select ONE option.

Question #7 (1 Point)

Which of the following activities is part of the main activity "test analysis" in the test process?

- a) Identifying any required infrastructure and tools
- b) Creating test suites from test scripts
- c) Analyzing lessons learned for process improvement
- d) Evaluating the test basis for testability

Select ONE option.

Question #8 (1 Point)

Match the following test work products (1-4) with the right description (A-D).

1. Test suite
 2. Test case
 3. Test script
 4. Test charter
- A. A set of test scripts to be executed in a specific test run
B. A set of instructions for the execution of a test
C. Contains expected results
D. Documentation of test activities in session-based exploratory testing
- a) 1A, 2C, 3B, 4D
b) 1D, 2B, 3A, 4C
c) 1A, 2C, 3D, 4B
d) 1D, 2C, 3B, 4A

Select ONE option.

Question #9 (1 Point)

How can white-box testing be applied during user acceptance testing?

- a) To check if large volumes of data can be transferred between integrated systems
- b) To check if all code statements and code decision paths have been executed
- c) To check if all work process flows have been covered
- d) To cover all web page navigations

Select ONE option.

Question #10 (1 Point)

Which of the following statements comparing component testing and system testing is TRUE?

- a) Component testing verifies the functionality of software modules, program objects, and classes that are separately testable, whereas system testing verifies interfaces between components and interactions between different parts of the system
- b) Test cases for component testing are usually derived from component specifications, design specifications, or data models, whereas test cases for system testing are usually derived from requirement specifications or use cases
- c) Component testing only focuses on functional characteristics, whereas system testing focuses on functional and non-functional characteristics
- d) Component testing is the responsibility of the testers, whereas system testing typically is the responsibility of the users of the system

Select ONE option.

Question #11 (1 Point)

Which one of the following is TRUE?

- a) The purpose of regression testing is to check if the correction has been successfully implemented, while the purpose of confirmation testing is to confirm that the correction has no side effects
- b) The purpose of regression testing is to detect unintended side effects, while the purpose of confirmation testing is to check if the system is still working in a new environment
- c) The purpose of regression testing is to detect unintended side effects, while the purpose of confirmation testing is to check if the original defect has been fixed
- d) The purpose of regression testing is to check if the new functionality is working, while the purpose of confirmation testing is to check if the original defect has been fixed

Select ONE option.

Question #12 (1 Point)

Which one of the following is the BEST definition of an incremental development model?

- a) Defining requirements, designing software and testing are done in phases where in each phase a piece of the system is added
- b) A phase in the development process should begin when the previous phase is complete
- c) Testing is viewed as a separate phase which takes place after development has been completed
- d) Testing is added to development as an increment

Select ONE option.

Question #13 (1 Point)

Which of the following should NOT be a trigger for maintenance testing?

- a) Decision to test the maintainability of the software
- b) Decision to test the system after migration to a new operating platform
- c) Decision to test if archived data is possible to be retrieved
- d) Decision to test after “hot fixes”

Select ONE option.

Question #14 (1 Point)

Which of the following options are roles in a formal review?

- a) Developer, Moderator, Review leader, Reviewer, Tester
- b) Author, Moderator, Manager, Reviewer, Developer
- c) Author, Manager, Review leader, Reviewer, Designer
- d) Author, Moderator, Review leader, Reviewer, Scribe

Select ONE option.

Question #15 (1 Point)

Which activities are carried out within the planning of a formal review?

- a) Collection of metrics for the evaluation of the effectiveness of the review
- b) Answer any questions the participants may have
- c) Definition and Verification of fulfillment of entry criteria for the review
- d) Evaluation of the review findings against the exit criteria

Select ONE option.

Question #16 (1 Point)

Which of the review types below is the BEST option to choose when the review must follow a formal process based on rules and checklists?

- a) Informal Review
- b) Technical Review
- c) Inspection
- d) Walkthrough

Select ONE option.

Question #17 (1 Point)

Which of the following statements about static testing are MOST true?

- a) Static testing is a cheap way to detect and remove defects
- b) Static testing makes dynamic testing less challenging
- c) Static testing makes it possible to find run-time problems early in the lifecycle
- d) When testing safety-critical system, static testing has less value because dynamic testing finds the defects better

Select ONE options.

Question #18 (1 Point)

You will be invited to a review. The work product to be reviewed is a description of the in-house document creation process. The aim of the description is to present the work distribution between the different roles involved in the process in a way that can be clearly understood by everyone.

You will be invited to a checklist-based review. The checklist will also be sent to you. It includes the following points:

- i. Is the person who performs the activity clearly identified for each activity?
- ii. Are the entry criteria clearly defined for each activity?
- iii. Are the exit criteria clearly defined for each activity?
- iv. Are the supporting roles and their scope of work clearly defined for each activity?

In the following we show an excerpt of the work result to be reviewed, for which you should use the checklist above:

"After checking the customer documentation for completeness and correctness, the software architect creates the system specification. Once the software architect has completed the system specification, he invites testers and verifiers to the review. A checklist describes the scope of the review. Each invited reviewer creates review comments - if necessary - and concludes the review with an official review done-comment."

Which of the following statements about your review is correct?

- a) Point ii) of the checklist has been violated because it is not clear which condition must be fulfilled to invite to the review
- b) You notice that in addition to the tester and the verifier, the validator must also be invited. Since this item is not part of your checklist, you do not create a corresponding comment
- c) Point iii) of the checklist has been violated as it is not clear what marks the review as completed
- d) Point i) of the checklist has been violated because it is not clear who is providing the checklist for the invitation to the review

Select ONE option.

Question #19 (1 Point)

What is checklist-based testing?

- a) A test technique in which tests are derived based on the tester's knowledge of past faults, or general knowledge of failures
- b) A test technique based on an analysis of the specification of a component or system
- c) An experience-based test technique whereby the experienced tester uses a list of items to be noted, checked, or remembered, or a set of rules or criteria against which a product must be verified
- d) An approach to testing where the testers dynamically design and execute tests based on their knowledge, exploration of the test item and the results of previous tests

Select ONE option.

Question #20 (1 Point)

Which one of the following options is categorized as a black-box test technique?

- a) A technique based on analysis of the architecture
- b) A technique checking that the test object is working according to the detailed design
- c) A technique based on the knowledge of past faults, or general knowledge of failures
- d) A technique based on formal requirements

Select ONE option

Question #21 (1 Point)

The following statement refers to decision coverage:

“When the code contains only a single ‘if’ statement and no loops or CASE statements, and its execution is not nested within the test, any single test case we run will result in 50% decision coverage.”

Which of the following statement is correct?

- a) The statement is true. Any single test case provides 100% statement coverage and therefore 50% decision coverage
- b) The statement is true. Any single test case would cause the outcome of the “if” statement to be either true or false
- c) The statement is false. A single test case can only guarantee 25% decision coverage in this case
- d) The statement is false. The statement is too broad. It may be correct or not, depending on the tested software

Select ONE option.

Question #22 (1 Point)

Which one of the following is the description of statement coverage?

- a) It is a metric, which is the percentage of test cases that have been executed
- b) It is a metric, which is the percentage of statements in the source code that have been executed
- c) It is a metric, which is the number of statements in the source code that have been executed by test cases that are passed
- d) It is a metric, that gives a true/false confirmation if all statements are covered or not

Select ONE option.

Question #23 (1 Point)

Which statement about the relationship between statement coverage and decision coverage is true?

- a) 100% decision coverage also guarantees 100% statement coverage
- b) 100% statement coverage also guarantees 100% decision coverage
- c) 50% decision coverage also guarantees 50% statement coverage
- d) Decision coverage can never reach 100%

Select ONE option.

Question #24 (1 Point)

For which of the following situations is exploratory testing suitable?

- a) When time pressure requires speeding up the execution of tests already specified
- b) When the system is developed incrementally, and no test charter is available
- c) When testers are available who have enough knowledge of similar applications and technologies
- d) When an advanced knowledge of the system already exists, and evidence is to be if it should be tested intensively

Select ONE option.

Question #25 (1 Point)

An employee's bonus is to be calculated. It cannot be negative, but it can be calculated down to zero. The bonus is based on the length of employment:

- Less than or equal to 2 years
- More than 2 years but less than 5 years
- 5 to 10 years inclusively
- Longer than 10 years

What is the minimum number of test cases required to cover all valid equivalence partitions for calculating the bonus?

- a) 3
- b) 5
- c) 2
- d) 4

Select ONE option.

Question #26 (1 Point)

A speed control and reporting system has the following characteristics:

- If you drive 50 km/h or less, nothing will happen.
- If you drive faster than 50 km/h, but no more than 55 km/h, you will be warned.
- If you drive faster than 55 km/h but not more than 60 km/h, you will be fined.
- If you drive faster than 60 km/h, your driving license will be suspended.
- The speed in km/h is available to the system as an integer value.

Which would be the most likely set of values (km/h) identified by applying the boundary value analysis, where only the values on the boundaries of the equivalence classes are selected?

- a) 0, 49, 50, 54, 59, 60
- b) 50, 55, 60
- c) 49, 50, 54, 55, 60, 62
- d) 50, 51, 55, 56, 60, 61

Select ONE option.

Question #27 (1 Point)

A company's employees are paid bonuses if they work more than a year in the company and achieve a target which is individually agreed before.

These facts can be shown in a decision table:

Test-ID		T1	T2	T3	T4
Condition1	Employment for more than 1 year?	YES	NO	NO	YES
Condition2	Agreed target?	NO	NO	YES	YES
Condition3	Achieved target?	NO	NO	YES	YES
Action	Bonus payment	NO	NO	NO	YES

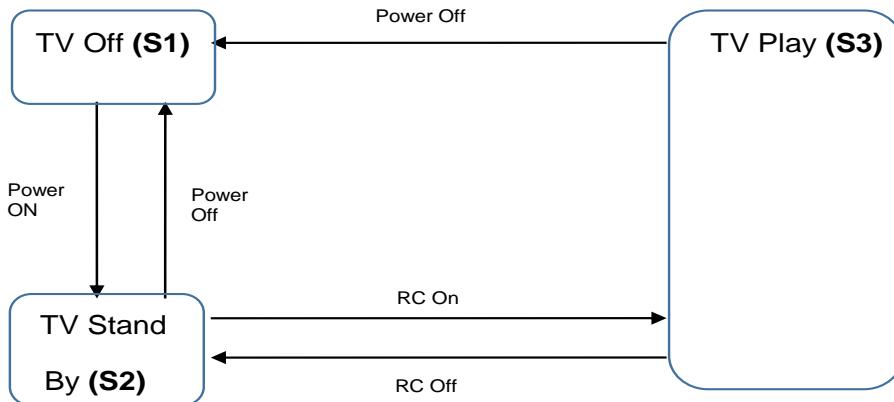
Which of the following test cases represents a situation that can happen in real life, and is missing in the above decision table?

- a) Condition1 = YES, Condition2 = NO, Condition3 = YES, Action= NO
- b) Condition1 = YES, Condition2 = YES, Condition3 = NO, Action= YES
- c) Condition1 = NO, Condition2 = NO, Condition3 = YES, Action= NO
- d) Condition1 = NO, Condition2 = YES, Condition3 = NO, Action= NO

Select ONE option.

Question #28 (1 Point)

Which of the following statements about the given state transition diagram and table of test cases is TRUE?



Test Case	1	2	3	4	5
Start State	S1	S2	S2	S3	S3
Input	Power On	Power Off	RC On	RC Off	Power Off
Expected Final State	S2	S1	S3	S2	S1

- a) The given test cases cover both valid and invalid transitions in the state transition diagram
- b) The given test cases represent all possible valid transitions in the state transition diagram
- c) The given test cases represent some of the valid transitions in the state transition diagram
- d) The given test cases represent pairs of transitions in the state transition diagram

Select ONE option.

Question #29 (1 Point)

A video application has the following requirement: The application shall allow playing a video on the following display resolution:

1. 640x480
2. 1280x720
3. 1600x1200
4. 1920x1080

Which of the following list of test cases is a result of applying the equivalence partitioning test technique to test this requirement?

- a) Verify that the application can play a video on a display of size 1920x1080 (1 test case)
- b) Verify that the application can play a video on a display of size 640x480 and 1920x1080 (2 test cases)
- c) Verify that the application can play a video on each of the display sizes in the requirement (4 test cases)
- d) Verify that the application can play a video on any one of the display sizes in the requirement (1 test case)

Select ONE option.

Question #30 (1 Point)

Which of the following statements BEST describes how tasks are divided between the test manager and the tester?

- a) The test manager plans testing activities and chooses the standards to be followed, while the tester chooses the tools and set the tools usage guidelines
- b) The test manager plans, coordinates, and controls the testing activities, while the tester automates the tests
- c) The test manager plans, monitors, and controls the testing activities, while the tester designs tests and decides on the release of the test object
- d) The test manager plans and organizes the testing and specifies the test cases, while the tester executes the tests

Select ONE option.

Question #31 (1 Point)

Which of the following metrics would be MOST useful to monitor during test execution?

- a) Percentage of executed test cases
- b) Average number of testers involved in the test execution
- c) Coverage of requirements by source code
- d) Percentage of test cases already created and reviewed

Select ONE option.

Question #32 (1 Point)

Which of the following can affect and be part of the (initial) test planning?

- a) Budget limitations
- b) Test log
- c) Failure rate
- d) Use cases

Select ONE options.

Question #33 (1 Point)

Which of the following lists contains only typical exit criteria from testing?

- a) Reliability measures, test coverage, schedule and status about fixing defect and remaining risks
- b) Reliability measures, test coverage, degree of tester's independence and product completeness
- c) Reliability measures, test coverage, test cost, availability of test environment, time to market and product completeness
- d) Time to market, remaining defects, tester qualification, availability of testable use cases, test coverage and test cost

Select ONE option.

Question #34 (1 Point)

Which one of the following is NOT included in a test summary report?

- a) Defining pass/fail criteria and objectives of testing
- b) Deviations from the test approach
- c) Measurements of actual progress against exit criteria
- d) Evaluation of the quality of the test object

Select ONE option.

Question #35 (1 Point)

The project develops a "smart" heating thermostat. The control algorithms of the thermostat were modeled as Matlab/Simulink models and run on the internet connected server. The thermostat uses the specifications of the server to trigger the heating valves.

The test manager has defined the following test strategy/approach in the test plan:

1. The acceptance test for the whole system is executed as an experience-based test.
2. The control algorithms on the server are checked against standard of the energy saving regulation.
3. The functional test of the thermostat is performed as risk-based testing.
4. The security tests of data / communication via the internet are executed together with external security experts.

What four common types of test strategies/approaches did the test manager implement in the test plan?

- a) Methodical, analytical, reactive, and regression-averse
- b) Analytical, standard-compliant, consultative, and reactive
- c) Model-based, methodical, analytical, and consultative
- d) Regression-averse, consultative, reactive, and methodical

Select ONE option.

Question #36 (1 Point)

Which one of the following is the characteristic of a metrics-based approach for test estimation?

- a) Budget which was used by a previous similar test project
- b) Overall experience collected in interviews with test managers
- c) Estimation of effort for test automation agreed in the test team
- d) Average of calculations collected from business experts

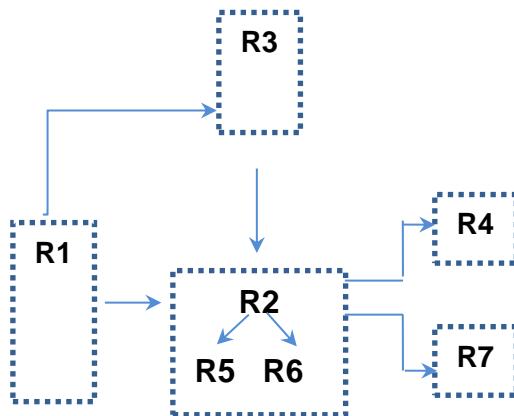
Select ONE option.

Question #37 (1 Point)

As a test manager you are responsible for testing the following parts of requirements:

- R1 - Process anomalies
- R2 - Synchronization
- R3 - Approval
- R4 - Problem solving
- R5 - Financial data
- R6 - Diagram data
- R7 - Changes to the user profile

Notation: Logical requirement dependencies (A → B means, that B depends on A):



Which one of the following options structures the test execution schedule according to the requirement dependencies?

- a) R1 ; R3 ; R4 ; R7 ; R2 ; R5 ; R6
- b) R1 ; R3 ; R2 ; R4 ; R7 ; R5 ; R6
- c) R1 ; R3 ; R2 ; R5 ; R6 ; R4 ; R7
- d) R1 ; R2 ; R5 ; R6 ; R3 ; R4 ; R7

Select ONE option.

Question #38 (1 Point)

You are testing a new version of software for a coffee machine. The machine can prepare different types of coffee based on four categories. i.e., coffee size, sugar, milk, and syrup. The criteria are as follows:

- Coffee size (small, medium, large)
- Sugar (none, 1 unit, 2 units, 3 units, 4 units)
- Milk (yes or no)
- Coffee flavor syrup (no syrup, caramel, hazelnut, vanilla)

Now you are writing a defect report with the following information:

- Title: Low coffee temperature.
- Short summary: When you select coffee with milk, the time for preparing coffee is too long and the temperature of the beverage is too low (less than 40 °C).
- Expected result: The temperature of coffee should be standard (about 75 °C).
- Degree of risk: Medium
- Priority: Normal

What valuable information was omitted in the above defect report?

- a) The actual test results
- b) Identification of the tested software version
- c) Status of the defect
- d) Ideas for improving the test case

Select ONE option.

Question #39 (1 Point)

Which one of the following is MOST likely to be a benefit of test execution tools?

- a) It is easy to create regression tests
- b) It is easy to maintain version control of test assets
- c) It is easy to design tests for security testing
- d) It is easy to run regression tests

Select ONE option.

Question #40 (1 Point)

Which one of the following test tools is mostly suitable for developers rather than testers?

- a) Requirement management tools
- b) Configuration management tools
- c) Static analysis tools
- d) Performance testing tools

Select ONE option.

Sample Exam – Questions

**Sample Exam set B
Version 1.4**

ISTQB® Certified Tester Syllabus Foundation Level

Compatible with Syllabus version 2018 v3.1

International Software Testing Qualifications Board



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Revision History

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1.4	February 2, 2022	Minor changes to Questions: 8, 32, 38, 39
1.3.1	May 12, 2021	Update to Copyright Notice
1.3	March 17, 2020	Transfer to new Sample Exam Template layout Minor changes to Questions: 3, 9, 20, 21, 23, 24 Major changes to Questions: 1, 2, 31
1.2	December 30, 2019	Minor changes to Questions: 1, 2, 4, 8, 10, 14, 20, 22, 24, 27, 32 Major changes to Question: 38 Replaced of Question: 15
1.1	February 28, 2019	Refactor layout on Sample Exam Template, Minor changes to Questions: 4, 8, 10, 14, 32, 34, 35
1.0	May 11, 2018	First version

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Introduction

Purpose of this document

The example questions and answers and associated justifications in this sample exam have been created by a team of subject matter experts and experienced question writers with the aim of:

- Assisting ISTQB® Member Boards and Exam Boards in their question writing activities
- Providing training providers and exam candidates with examples of exam questions

These questions cannot be used as-is in any official examination.

Note, that real exams may include a wide variety of questions, and this sample exam **is not** intended to include examples of all possible question types, styles or lengths, also this sample exam may both be more difficult or less difficult than any official exam.

Instructions

In this document you may find:

- Questions¹, including for each question:
 - Any scenario needed by the question stem
 - Point value
 - Response (answer) option set
- Additional questions, including for each question [does not apply to all sample exams]:
 - Any scenario needed by the question stem
 - Point value
 - Response (answer) option set
- *Answers, including justification are contained in a separate document*

¹ In this sample exam the questions are sorted by the LO they target; this cannot be expected of a live exam.

Questions

Question #1 (1 Point)

Which of the following provides the definition of the term test case?

- a) Subset of the value domain of a variable within a component or system in which all values are expected to be treated the same based on the specification
- b) A set of preconditions, inputs, actions, expected results and post conditions, developed based on test conditions
- c) Work products produced during the test process for use in planning, designing, executing, evaluating, and reporting on testing
- d) A source to determine an expected result to compare with the actual result of the system under test

Select ONE option.

Question #2 (1 Point)

Which of the following is a typical objective of testing?

- a) To find defects and failures
- b) To validate the project plan works as required
- c) Ensuring of complete testing
- d) Comparing actual results with expected results

Select ONE option.

Question #3 (1 Point)

Which of the following is an example of a failure in a car cruise control system?

- a) The developer of the system forgot to rename variables after a cut-and-paste operation
- b) Unnecessary code that sounds an alarm when reversing was included in the system
- c) The system stops maintaining a set speed when the radio volume is increased or decreased
- d) The design specification for the system wrongly states speeds

Select ONE option.

Question #4 (1 Point)

Which of the following is a defect rather than a root cause in a fitness tracker?

- a) Because the author of the requirements was unfamiliar with the domain of fitness training, he therefore wrongly assumed that users wanted heartbeat in beats per hour
- b) The tester of the smartphone interface had not been trained in state transition testing, so missed a major defect
- c) An incorrect configuration variable implemented for the GPS function could cause location problems during daylight saving times
- d) Because the designer had never worked on wearable devices before, she as designer of the user interface therefore misunderstood the effects of reflected sunlight

Select ONE option.

Question #5 (1 Point)

As a result of risk analysis, more testing is being directed to those areas of the system under test where initial testing found more defects than average.

Which of the following testing principles is being applied?

- a) Beware of the pesticide paradox
- b) Testing is context dependent
- c) Absence-of-errors is a fallacy
- d) Defects cluster together

Select ONE option.

Question #6 (1 Point)

Given the following test activities and tasks:

- A. Test design
 - B. Test implementation
 - C. Test execution
 - D. Test completion
-
- 1. Entering change requests for open defect reports
 - 2. Identifying test data to support the test cases
 - 3. Prioritizing test procedures and creating test data
 - 4. Analyzing discrepancies to determine their cause

Which of the following BEST matches the activities with the tasks?

- a) A-2, B-3, C-4, D-1
- b) A-2, B-1, C-3, D-4
- c) A-3, B-2, C-4, D-1
- d) A-3, B-2, C-1, D-4

Select ONE option.

Question #7 (1 Point)

Which of the following BEST describes how value is added by maintaining traceability between the test basis and test artifacts?

- a) Maintenance testing can be fully automated based on changes to the initial requirements
- b) It is possible to determine if a new test case has increased coverage of the requirements
- c) Test managers can identify which testers found the highest severity defects
- d) Areas that may be impacted by side-effects of a change can be targeted by confirmation testing

Select ONE option.

Question #8 (1 Point)

Which of the following qualities is MORE likely to be found in a tester's mindset rather than in a developer's?

- a) A tester's mindset tends to grow and mature as the tester gains experience
- b) Ability to see what might go wrong
- c) Good communication with team members
- d) Focus on getting all things done

Select ONE option.

Question #9 (1 Point)

Given the following statements about the relationships between software development activities and test activities in the software development lifecycle:

1. Each development activity should have a corresponding testing activity
2. Reviewing should start as soon as final versions of documents become available
3. The design and implementation of tests should start during the corresponding development activity
4. Testing activities should start in the early stages of the software development lifecycle

Which of the following CORRECTLY shows which are true and false?

- a) True – 1, 2; False – 3, 4
- b) True – 2, 3; False – 1, 4
- c) True – 1, 2, 4; False – 3
- d) True – 1, 4; False – 2, 3

Select ONE option.

Question #10 (1 Point)

Given that the testing being performed has the following attributes:

- Based on interface specifications
- Focused on finding failures in communication
- The test approach uses both functional and structural test types

Which of the following test levels is MOST likely being performed?

- a) Integration testing
- b) Acceptance testing
- c) System testing
- d) Component testing

Select ONE option.

Question #11 (1 Point)

Which of the following statements about test types and test levels is CORRECT?

- a) Functional and non-functional testing can be performed at system and acceptance test levels, while white-box testing is restricted to component and integration testing
- b) Functional testing can be performed at any test level, while white-box testing is restricted to component testing
- c) It is possible to perform functional, non-functional and white-box testing at any test level
- d) Functional and non-functional testing can be performed at any test level, while white-box testing is restricted to component and integration testing

Select ONE option.

Question #12 (1 Point)

Which of the following statements BEST compares the purposes of confirmation testing and regression testing?

- a) The purpose of regression testing is to ensure that all previously run tests still work correctly, while the purpose of confirmation testing is to ensure that any fixes made to one part of the system have not adversely affected other parts
- b) The purpose of confirmation testing is to check that a previously found defect has been fixed, while the purpose of regression testing is to ensure that no other parts of the system have been adversely affected by the fix
- c) The purpose of regression testing is to ensure that any changes to one part of the system have not caused another part to fail, while the purpose of confirmation testing is to check that all previously run tests still provide the same results as before
- d) The purpose of confirmation testing is to confirm that changes to the system were made successfully, while the purpose of regression testing is to run tests that previously failed to ensure that they now work correctly

Select ONE option.

Question #13 (1 Point)

Which of the following statements CORRECTLY describes a role of impact analysis in Maintenance Testing?

- a) Impact analysis is used when deciding if a fix to a maintained system is worthwhile
- b) Impact analysis is used to identify how data should be migrated into the maintained system
- c) Impact analysis is used to decide which hot fixes are of most value to the user
- d) Impact analysis is used to determine the effectiveness of new maintenance test cases

Select ONE option.

Question #14 (1 Point)

Which of the following statements CORRECTLY reflects the value of static testing?

- a) By introducing reviews, we have found that both the quality of specifications and the time required for development and testing have increased
- b) Using static testing means we have better control and cheaper defect management due to the ease of detecting defects later in the lifecycle
- c) Now that we require the use of static analysis, missed requirements have decreased and communication between testers and developers has improved
- d) Since we started using static analysis, we find coding defects that might have not been found by performing only dynamic testing

Select ONE option.

Question #15 (1 Point)

Which of the following statements on the use of checklists in a formal review is CORRECT?

- a) As part of the review planning, the reviewers create the checklists needed for the review
- b) As part of the issue communication, the reviewers fill in the checklists provided for the review
- c) As part of the review meeting, the reviewers create defect reports based on the checklists provided for the review
- d) As part of the review initiation, the reviewers receive the checklists needed for the review

Select ONE option.

Question #16 (1 Point)

Which of the following CORRECTLY matches the roles and responsibilities in a formal review?

- a) Manager – Decides on the execution of reviews
- b) Review Leader - Ensures effective running of review meetings
- c) Scribe – Fixes defects in the work product under review
- d) Moderator – Monitors ongoing cost-effectiveness

Select ONE option.

Question #17 (1 Point)

The reviews being used in your organization have the following attributes:

- There is a role of a scribe
- The purpose is to detect potential defects
- The review meeting is led by the author
- Reviewers find potential defects by individual review
- A review report is produced

Which of the following review types is MOST likely being used?

- a) Informal Review
- b) Walkthrough
- c) Technical Review
- d) Inspection

Select ONE option.

Question #18 (1 Point)

You have been asked to take part in a checklist-based review of the following excerpt from the requirements specification for a library system:

Librarians can:

1. Register new borrowers
2. Return books from borrowers
3. Accept fines from borrowers
4. Add new books to the system with their ISBN, author and title
5. Remove books from the system
6. Get system responses within 5 seconds

Borrowers can:

7. Borrow a maximum of 3 books at one time
8. View the history of books they have borrowed/reserved
9. Be fined for failing to return a book within 3 weeks
10. Get system responses within 3 seconds
11. Borrow a book at no cost for a maximum of 4 weeks
12. Reserve books (if they are on-loan)

All users (librarians and borrowers):

13. Can search for books by ISBN, author, or title
14. Can browse the system catalogue
15. The system shall respond to user requests within 3 seconds
16. The user interface shall be easy-to-use

You have been assigned the checklist entry that requires you to review the specification for inconsistencies between individual requirements (i.e., conflicts between requirements).

Which of the following CORRECTLY identifies inconsistencies between pairs of requirements?

- a) 6-10, 6-15, 7-12
- b) 6-15, 9-11
- c) 6-10, 6-15, 9-11
- d) 6-15, 7-12

Select ONE option.

Question #19 (1 Point)

Which of the following provides the BEST description of exploratory testing?

- a) A testing practice in which an in-depth investigation of the background of the test object is used to identify potential weaknesses that are examined by test cases
- b) An approach to testing whereby the testers dynamically design and execute tests based on their knowledge, exploration of the test item and the results of previous tests
- c) An approach to test design in which test activities are planned as uninterrupted sessions of test analysis and design, often used in conjunction with checklist-based testing
- d) Testing based on the tester's experience, knowledge, and intuition

Select ONE option.

Question #20 (1 Point)

Which of the following BEST matches the descriptions with the different categories of test techniques?

1. Coverage is measured based on a selected structure of the test object
2. The processing within the test object is checked
3. Tests are based on defects' likelihood and their distribution
4. Deviations from the requirements are checked
5. User stories are used as the test basis

Using notation for the following 4 options:

Black	- Black-box test techniques
White	- White-box test techniques
Experience	- Experience-based test techniques

- a) Black – 4, 5 White – 1, 2; Experience – 3
- b) Black – 3 White – 1, 2; Experience – 4, 5
- c) Black – 4 White – 1, 2; Experience – 3, 5
- d) Black – 1, 3, 5 White – 2; Experience – 4

Select ONE option.

Question #21 (1 Point)

A fitness app measures the number of steps that are walked each day and provides feedback to encourage the user to keep fit.

The feedback for different numbers of steps should be:

- | | |
|------------------------|------------------|
| Up to 1000 | - Couch Potato! |
| Above 1000, up to 2000 | - Lazy Bones! |
| Above 2000, up to 4000 | - Getting There! |
| Above 4000, up to 6000 | - Not Bad! |
| Above 6000 | - Way to Go! |

Which of the following sets of test inputs would achieve the BEST equivalence partition coverage?

- a) 0, 1000, 2000, 3000, 4000
- b) 1000, 2001, 4000, 4001, 6000
- c) 123, 2345, 3456, 4567, 5678
- d) 666, 999, 2222, 5555, 6666

Select ONE option.

Question #22 (1 Point)

A daily radiation recorder for plants produces a sunshine score based on a combination of the number of hours a plant is exposed to the sun (below 3 hours, 3 to 6 hours or above 6 hours) and the average intensity of the sunshine (very low, low, medium, high).

Given the following test cases:

	Hours	Intensity	Score
T1	1.5	v. low	10
T2	7.0	medium	60
T3	0.5	v. low	10

What is the minimum number of additional test cases that are needed to ensure full coverage of ALL VALID INPUT equivalence partitions?

- a) 1
- b) 2
- c) 3
- d) 4

Select ONE option.

Question #23 (1 Point)

A smart home app measures the average temperature in the house over the previous week and provides feedback to the occupants on their environmental friendliness based on this temperature.

The feedback for different average temperature ranges (to the nearest °C) should be:

- Up to 10°C - Icy Cool!
- 11°C to 15°C - Chilled Out!
- 16°C to 19°C - Cool Man!
- 20°C to 22°C - Too Warm!
- Above 22°C - Hot & Sweaty!

Using BVA (only Min- and Max values), which of the following sets of test inputs provides the highest level of boundary coverage?

- a) 0°C, 11°C, 20°C, 22°C, 23°C
- b) 9°C, 15°C, 19°C, 23°C, 100°C
- c) 10°C, 16°C, 19°C, 22°C, 23°C
- d) 14°C, 15°C, 18°C, 19°C, 21°C, 22°C

Select ONE option.

Question #24 (1 Point)

Decision table testing is being performed on a speeding fine system. Two test cases have already been generated for rules R1 and R4, which are shown below:

	Rules	R1	R4
Conditions	Speed > 50	T	F
	School Zone	T	F
Actions	\$250 Fine	F	F
	Driving license withdrawal	T	F

Given the following additional test cases:

	Rules	DT1	DT2	DT3	DT4
Input	Speed	55	44	66	77
	School Zone	T	T	T	F
Expected Result	\$250 Fine	F	F	F	T
	Driving license withdrawal	T	F	T	F

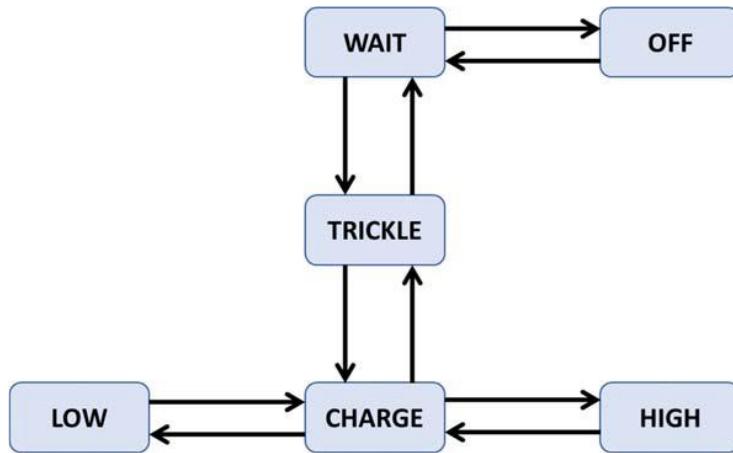
Which two of the additional test cases would achieve full coverage of the complete decision table (when combined with the test cases that have already been generated for rules R1 and R4)?

- a) DT1, DT2
- b) DT2, DT3
- c) DT2, DT4
- d) DT3, DT4

Select ONE option.

Question #25 (1 Point)

Given the following state model of a battery charger software:



Which of the following sequences of transitions provides the highest level of transition coverage for the model?

- a) OFF → WAIT → CHARGE → HIGH → WAIT → CHARGE → LOW
- b) WAIT → TRICKLE → WAIT → TRICKLE → CHARGE → LOW → CHARGE
- c) HIGH → CHARGE → LOW → WAIT → TRICKLE → WAIT → TRICKLE → CHARGE
- d) WAIT → TRICKLE → CHARGE → HIGH → CHARGE → OFF → WAIT

Select ONE option.

Question #26 (1 Point)

Which of the following statements BEST describes how test cases are derived from a use case?

- a) Test cases are created to exercise defined basic, exceptional and error behaviors performed by the system under test in collaboration with actors
- b) Test cases are derived by identifying the components included in the use case and creating integration tests that exercise the interactions of these components
- c) Test cases are generated by analyzing the interactions of the actors with the system to ensure the user interfaces are easy to use
- d) Test cases are derived to exercise each of the decision points in the business process flows of the use case, to achieve 100% decision coverage of these flows

Select ONE option.

Question #27 (1 Point)

Which of the following descriptions of statement coverage is CORRECT?

- a) Statement coverage is a measure of the number of lines of source code exercised by tests
- b) Statement coverage is a measure of the proportion of executable statements in the source code exercised by tests
- c) Statement coverage is a measure of the percentage of lines of source code (without comments) exercised by tests
- d) Statement coverage is a measure of the number of executable statements in the source code exercised by tests

Select ONE option.

Question #28 (1 Point)

Which of the following descriptions of decision coverage is CORRECT?

- a) Decision coverage is a measure of the percentage of possible paths through the source code exercised by tests
- b) Decision coverage is a measure of the percentage of business flows through the component exercised by tests
- c) Decision coverage is a measure of the 'if' statements in the code that are exercised with both the true and false outcomes
- d) Decision coverage is a measure of the proportion of decision outcomes in the source code exercised by tests

Select ONE option.

Question #29 (1 Point)

Which of the following BEST describes the concept behind error guessing?

- a) Error guessing requires you to imagine you are the user of the test object and guess mistakes the user could make interacting with it
- b) Error guessing involves using your personal experience of development and the mistakes you made as a developer
- c) Error guessing involves using your knowledge and experience of defects found in the past and typical mistakes made by developers
- d) Error guessing requires you to rapidly duplicate the development task to identify the sort of mistakes a developer might make

Select ONE option.

Question #30 (1 Point)

Which of the following BEST explains a benefit of independent testing?

- a) The use of an independent test team allows project management to assign responsibility for the quality of the final deliverable to the test team, so ensuring everyone is aware that quality is the test team's overall responsibility
- b) If a test team external to the organization can be afforded, then there are distinct benefits in terms of this external team not being so easily swayed by the delivery concerns of project management and the need to meet strict delivery deadlines
- c) An independent test team can work totally separately from the developers, need not be distracted with changing project requirements, and can restrict communication with the developers to defect reporting through the defect management system
- d) When specifications contain ambiguities and inconsistencies, assumptions are made on their interpretation, and an independent tester can be useful in questioning those assumptions and the interpretation made by the developer

Select ONE option.

Question #31 (1 Point)

Which of the following tasks is MOST LIKELY to be performed by the test manager?

- a) Write test summary reports based on the information gathered during testing
- b) Review tests developed by others
- c) Prepare and acquire test data
- d) Analyze, review, and assess requirements, specifications, and models for testability

Select ONE option.

Question #32 (1 Point)

Given the following examples of entry and exit criteria:

1. The original testing budget of \$30,000 plus contingency of \$7,000 has been spent
2. 96% of planned tests for the drawing package have been executed and the remaining tests are now out of scope
3. The trading performance test environment has been designed, set-up and verified
4. Current status is no outstanding critical defects and two high-priority ones
5. The autopilot design specifications have been reviewed and reworked
6. The tax rate calculation component has passed unit testing.

Which of the following BEST categorizes them as entry and exit criteria:

- a) Entry criteria – 5, 6; Exit criteria – 1, 2, 3, 4
- b) Entry criteria – 2, 3, 6; Exit criteria – 1, 4, 5
- c) Entry criteria – 1, 3; Exit criteria – 2, 4, 5, 6
- d) Entry criteria – 3, 5, 6; Exit criteria – 1, 2, 4

Select ONE option.

Question #33 (1 Point)

Given the following priorities and dependencies for these test cases:

Test Case	Priority	Technical dependency on:	Logical dependency on:
TC1	High	TC4	
TC2	Low		
TC3	High		TC4
TC4	Medium		
TC5	Low		TC2
TC6	Medium	TC5	

Which of the following test execution schedules BEST considers the priorities and technical and logical dependencies?

- a) TC1 – TC3 – TC4 – TC6 – TC2 – TC5
- b) TC4 – TC3 – TC1 – TC2 – TC5 – TC6
- c) TC4 – TC1 – TC3 – TC5 – TC6 – TC2
- d) TC4 – TC2 – TC5 – TC1 – TC3 – TC6

Select ONE option.

Question #34 (1 Point)

Which of the following statements about test estimation approaches is CORRECT?

- a) With the metrics-based approach, the estimate is based on test measures from the project and so this estimate is only available after the testing starts
- b) With the expert-based approach, a group of expert users identified by the client recommends the necessary testing budget
- c) With the expert-based approach, the test managers responsible for the different testing activities predict the expected testing effort
- d) With the metrics-based approach, an average of the testing costs recorded from several past projects is used as the testing budget

Select ONE option.

Question #35 (1 Point)

Which of the following BEST defines risk level?

- a) Risk level is calculated by adding together the probabilities of all problem situations and the financial harm that results from them
- b) Risk level is estimated by multiplying the likelihood of a threat to the system by the chance that the threat will occur and will result in financial damage
- c) Risk level is determined by a combination of the probability of an undesirable event and the expected impact of that event
- d) Risk level is the sum of all potential hazards to a system multiplied by the sum of all potential losses from that system

Select ONE option.

Question #36 (1 Point)

Which of the following is MOST likely to be an example of a PRODUCT risk?

- a) The expected security features may not be supported by the system architecture
- b) The developers may not have time to fix all the defects found by the test team
- c) The test cases may not provide full coverage of the specified requirements
- d) The performance test environment may not be ready before the system is due for delivery

Select ONE option.

Question #37 (1 Point)

Which of the following is LEAST likely to be an example of product risk analysis CORRECTLY influencing the testing?

- a) The potential impact of security flaws has been identified as being particularly high, so security testing has been prioritized ahead of some other testing activities
- b) Testing has found the quality of the network module to be higher than expected, so additional testing will be performed in that area
- c) The users had problems with the user interface of the previous system, so additional usability testing is planned for the replacement system
- d) The time needed to load web pages is crucial to the success of the new website, so an expert in performance testing has been employed for this project

Select ONE option.

Question #38 (1 Point)

You are performing system testing of a train reservation system. Based on the test cases performed, you have noticed that the system occasionally reports that no trains are available, although this should be the case. You have provided the developers with a summary of the defect and the version of the tested system. They recognize the urgency of the defect and are now waiting for you to provide further details.

In addition to the information already provided, the following additional information is given:

1. Degree of impact (severity) of the defect
2. Identification of the test object
3. Details of the test environment
4. Urgency/priority to fix
5. Actual results
6. Reference to test case specification

Which of this additional information is most useful to include in the defect report?

- a) 1, 2, 6
- b) 1, 4, 5, 6
- c) 2, 3, 4, 5
- d) 3, 5, 6

Select ONE option.

Question #39 (1 Point)

Given the following test activities and test tools:

1. Performance measurement and dynamic analysis
 2. Test execution and logging
 3. Management of testing and testware
 4. Test design
-
- A. Code coverage tools
 - B. Dynamic analysis tools
 - C. Test data preparation tools
 - D. Defect management tools

Which of the following BEST matches the activities and tools?

- a) 1 – B, 2 – C, 3 – D, 4 – A
- b) 1 – B, 2 – A, 3 – C, 4 – D
- c) 1 – B, 2 – A, 3 – D, 4 – C
- d) 1 – A, 2 – B, 3 – D, 4 – C

Select ONE option.

Question #40 (1 Point)

Which of the following is MOST likely to be used as a reason for using a pilot project to introduce a tool into an organization?

- a) The need to evaluate how the tool fits with existing processes and practices and determining what would need to change
- b) The need to evaluate the test automation skills and training, mentoring and coaching needs of the testers who will use the tool
- c) The need to evaluate whether the tool provides the required functionality and does not duplicate existing test tools
- d) The need to evaluate the tool vendor in terms of the training and other support they provide

Select ONE option.

Sample Exam – Questions

Sample Exam set C
Version 1.3

ISTQB® Certified Tester Syllabus Foundation Level

Compatible with Syllabus version 2018 v3.1

International Software Testing Qualifications Board



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This document is maintained by a core team from ISTQB® consisting of the Syllabus Working Group and Exam Working Group.

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Revision History

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Version	Date	Remarks
1.3	Sep 29, 2021	Minor changes to Questions: 17, 26, 27, 38
1.2.1	May 12, 2021	Update to Copyright Notice
1.2	May 17, 2020	Major changes to Questions: 1, 19, 40 Minor changes to Questions: 2, 4, 34
1.1	May 29, 2019	Cosmetic and wording fixes
1.0	May 3, 2019	Release at Yerevan GA

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Introduction

Purpose of this document

The example questions and answers and associated justifications in this sample exam have been created by a team of subject matter experts and experienced question writers with the aim of:

- Assisting ISTQB® Member Boards and Exam Boards in their question writing activities
- Providing training providers and exam candidates with examples of exam questions

These questions cannot be used as-is in any official examination.

Note, that real exams may include a wide variety of questions, and this sample exam **is not** intended to include examples of all possible question types, styles or lengths, also this sample exam may both be more difficult or less difficult than any official exam.

Instructions

In this document you may find:

- Questions¹, including for each question:
 - Any scenario needed by the question stem
 - Point value
 - Response (answer) option set
- Additional questions, including for each question [does not apply to all sample exams]:
 - Any scenario needed by the question stem
 - Point value
 - Response (answer) option set
- *Answers, including justification are contained in a separate document*

¹ In this sample exam the questions are sorted by the LO they target; this cannot be expected of a live exam.

Questions

Question #1 (1 Point)

What is quality?

- a) Activities focused on providing confidence that quality requirements will be fulfilled
- b) The degree to which a component or system satisfies the stated and implied needs of its various stakeholders
- c) The degree to which a component or system protects information and data so that persons or other components or systems have the degree of access appropriate to their types and levels of authorization
- d) The total costs incurred on quality activities and issues and often split into prevention costs, appraisal costs, internal failure costs and external failure costs

Select ONE option.

Question #2 (1 Point)

Which of the following is a typical test objective?

- a) Preventing defects
- b) Repairing defects
- c) Comparing actual results to expected results
- d) Analyzing the cause of failure

Select ONE option.

Question #3 (1 Point)

A phone ringing momentarily distracts a programmer, causing the programmer to improperly program the logic that checks the upper boundary of an input variable. Later, during system testing, a tester notices that this input field accepts invalid input values. The improperly coded logic for the upper boundary check is:

- a) The root-cause
- b) The failure
- c) The error
- d) The defect

Select ONE option.

Question #4 (1 Point)

A product owner says that your role as a tester on an Agile team is to catch all the bugs before the end of each iteration. Which of the following is a testing principle that could be used to respond to this (false) statement?

- a) Defect clustering
- b) Testing shows the presence of defects
- c) Absence of error fallacy
- d) Root cause analysis

Select ONE option.

Question #5 (1 Point)

Programmers often write and execute unit tests against code which they have written. During this self-testing activity, which of the following is a tester mindset that programmers should adopt to perform this unit testing effectively?

- a) Good communication skills
- b) Code coverage
- c) Evaluating code defects
- d) Attention to detail

Select ONE option.

Question #6 (1 Point)

Consider the following testing activities:

1. Selecting regression tests
2. Evaluating completeness of test execution
3. Identifying which user stories have open defect reports
4. Evaluating whether the number of tests for each requirement is consistent with the level of product risk

Consider the following ways traceability can help testing:

- A. Improve understandability of test status reports to include status of test basis items
- B. Make testing auditable
- C. Provide information to assess process quality
- D. Analyze the impact of changes

Which of the following best matches the testing activity with how traceability can assist that activity?

- a) 1D, 2B, 3C, 4A
- b) 1B, 2D, 3A, 4C
- c) 1D, 2C, 3A, 4B
- d) 1D, 2B, 3A, 4C

Select ONE option.

Question #7 (1 Point)

A tester participated in a discussion about proposed database structure. The tester identified a potential performance problem related to certain common user searches. This possible problem was explained to the development team. Which of the following is a testing contribution to success that BEST matches this situation?

- a) Enabling required tests to be identified at an early stage
- b) Ensuring processes are carried out properly
- c) Reducing the risk of fundamental design defects
- d) Reducing the risk of untestable functionality

Select ONE option.

Question #8 (1 Point)

Which of the following is an example of a task that can be carried out as part of the test process?

- a) Analyzing a defect
- b) Designing test data
- c) Assigning a version to a test item
- d) Writing a user story

Select ONE option.

Question #9 (1 Point)

You are running a performance test with the objective of finding possible network bottlenecks in interfaces between components of a system. Which of the following statements describes this test?

- a) A functional test during the integration test level
- b) A non-functional test during the integration test level
- c) A functional test during the component test level
- d) A non-functional test during the component test level

Select ONE option.

Question #10 (1 Point)

Which of the following statements is true?

- a) Impact analysis is useful for confirmation testing during maintenance testing
- b) Confirmation testing is useful for regression testing during system design
- c) Impact analysis is useful for regression testing during maintenance testing
- d) Confirmation testing is useful for impact analysis during maintenance testing

Select ONE option.

Question #11 (1 Point)

Consider the following types of defects that a test level might focus on:

- a) Defects in separately testable modules or objects
- b) Not focused on identifying defects
- c) Defects in interfaces and interactions
- d) Defects in the whole test object

Which of the following list correctly matches test levels from the Foundation syllabus with the defect focus options given above?

- | | | | |
|--------------------------|----------------------|-----------------------|----------------------|
| a) 1 = performance test; | 2 = component test; | 3 = system test; | 4 = acceptance test |
| b) 1 = component test; | 2 = acceptance test; | 3 = system test; | 4 = integration test |
| c) 1 = component test; | 2 = acceptance test; | 3 = integration test; | 4 = system test |
| d) 1 = integration test; | 2 = system test; | 3 = component test; | 4 = acceptance test |

Select ONE option.

Question #12 (1 Point)

A mass market operating system software product is designed to run on any PC hardware with an x86-family processor. You are running a set of tests to look for defects related to support of the various PCs that use such a processor and to build confidence that important PC brands will work. What type of test are you performing?

- a) Performance test
- b) Processor test
- c) Functional test
- d) Portability test

Select ONE option.

Question #13 (1 Point)

During an Agile development effort, a product owner discovers a previously unknown regulatory requirement that applies to most of the user stories within a particular epic. The user stories are updated to provide for the necessary changes in software behavior. The programmers on the team are modifying the code appropriately. As a tester on the team, what types of tests will you run?

- a) Confirmation tests
- b) Regression tests
- c) Functional tests
- d) Change-related tests

Select ONE option.

Question #14 (1 Point)

In a formal review, what is the role name for the participant who runs an inspection meeting?

- a) Facilitator
- b) Programmer
- c) Author
- d) Project manager

Select ONE option.

Question #15 (1 Point)

You are reading a user story in the product backlog to prepare for a meeting with the product owner and a developer, noting potential defects as you go. Which of the following statements is true about this activity?

- a) It is not a static test, because static testing involves execution of the test object
- b) It is not a static test, because static testing is always performed using a tool
- c) It is a static test, because any defects you find could be found cheaper during dynamic testing
- d) It is a static test because static testing does not involve execution of the test object

Select ONE option.

Question #16 (1 Point)

During a period of intensive project overtime, a system architecture document is sent to various project participants, announcing a previously unplanned technical review to occur in one week. No adjustments are made to the participants' list of assigned tasks. Based on this information alone, which of the following is a factor for review success that is MISSING?

- a) Appropriate review type
- b) Adequate time to prepare
- c) Sufficient metrics to evaluate the author
- d) Well-managed review meeting

Select ONE option.

Question #17 (1 Point)

You are working as a tester on an Agile team and have participated in over two dozen user story refinement sessions with the product owner and the developers on the team at the start of each iteration. As the reviews have gotten more effective at detecting defects in user stories and the product owner more proficient at correcting those defects, you and the team notice that the team's velocity, as shown in your burndown charts, has started to increase. Which of the following is a benefit of static testing that is MOST DIRECTLY related to the team's increased velocity?

- a) Increasing total cost of quality
- b) Reducing testing cost
- c) Increasing development productivity
- d) Reducing total cost of quality

Select ONE option.

Question #18 (1 Point)

You are working on a video game development project, using Agile methods. It is based on Greek mythology and history, and players can play key roles in scenarios such as the battles between the Greeks and Trojans.

Consider the following user story and its associated acceptance criteria:

As a player,
I want to be able to acquire the Rod of Midas (a new magic object),
so that I can turn objects and other players into gold

- AC1: The Rod must work on any object or player, no matter what size, which can be touched anywhere by the player holding the Rod
- AC2: Holding the Rod does not change the player holding it into gold
- AC3: Any object or player touched by the Rod transforms completely into gold within one millisecond
- AC4: The Rod appears as shown in Prototype O.W.RoM
- AC5: The transformation starts at the point of contact with the Rod and moves at a rate of one meter per millisecond

You are participating in a checklist-based review session of this user story.

This user story and its associated acceptance criteria contain which of the following typical defects identified by static testing in this type of work product?

- a) Deviation from standards
- b) Contradiction
- c) Security vulnerability
- d) Coverage gaps

Select ONE option.

Question #19 (1 Point)

What is decision coverage?

- a) The coverage of condition outcomes
- b) Decision coverage is a synonym for statement coverage
- c) The coverage of executable statements
- d) The coverage of decision outcomes

Select ONE option.

Question #20 (1 Point)

Prior to an iteration planning session, you are studying a user story and its acceptance criteria, deriving test conditions and associated test cases from the user story as a way of applying the principle of early QA and test. What test technique are you applying?

- a) White-box
- b) Black-box
- c) Experience-based
- d) Error guessing

Select ONE option.

Question #21 (1 Point)

Which of the following is a true statement about exploratory testing?

- a) More experienced testers who have tested similar applications and technologies are likely to do better than less experienced testers at exploratory testing
- b) Exploratory testing does not identify any additional tests beyond those that would result from formal test techniques
- c) The time required to complete an exploratory testing session cannot be predicted in advance
- d) Exploratory testing can involve the use of black-box techniques but not white-box techniques

Select ONE option.

Question #22 (1 Point)

You are testing a mobile app that allows customers to access and manage their bank accounts. You are running a test suite that involves evaluating each screen and each field on each screen

against a general list of user interface best practices, derived from a popular book on the topic, that maximize attractiveness, ease-of-use, and accessibility for such apps. Which of the following options BEST categorizes the test technique you are using?

- a) Specification-based
- b) Exploratory
- c) Checklist-based
- d) Error guessing

Select ONE option.

Question #23 (1 Point)

Consider a mobile app that allows customers to access and manage their bank accounts. A user story has just been added to the set of features that checks customers' social media accounts and bank records to give personalized greetings on birthdays and other personal milestones. Which of the following test techniques could a PROGRAMMER use during a unit test of the code to ensure that coverage of situations when the greetings ARE supposed to occur and when the greetings ARE NOT supposed to occur?

- a) Statement testing
- b) Exploratory testing
- c) State transition testing
- d) Decision testing

Select ONE option.

Question #24 (1 Point)

A batch application has been in production unchanged for over two years. It runs overnight once a month to produce statements that will be e-mailed to customers. For each customer, the application goes through every account and lists every transaction on that account in the last month. It uses a nested-loop structure to process customers (outer loop), each customer's accounts (middle loop), and each account's transactions (inner loop).

One night, the batch application terminates prematurely, failing to e-mail statements to some customers, when it encounters a customer with one account for which no transactions occurred in the last month. This is a very unusual situation and has not occurred in the years since this application was placed in production.

While fixing the defect, a programmer asks you to recommend test techniques that are effective against this kind of defect. Which of the following test techniques would most likely have been able to detect the underlying defect?

- a) Decision testing
- b) Statement testing
- c) Checklist-based testing
- d) Error guessing

Select ONE option.

Question #25 (1 Point)

You are testing an unattended gasoline pump that only accepts credit cards. Once the credit card is validated, the pump nozzle placed into the tank, and the desired grade selected, the customer enters the desired amount of fuel in gallons using the keypad. The keypad only allows the entry of digits. Fuel is sold in tenths (0.1) of a gallon, up to 50.0 gallons.

Which of the following is a minimum set of desired amounts that covers the equivalence partitions for this input?

- a) 0.0, 20.0, 60.0
- b) 0.0, 0.1, 50.0
- c) 0.0, 0.1, 50.0, 70.0
- d) -0.1, 0.0, 0.1, 49.9, 50.0, 50.1

Select ONE option.

Question #26 (1 Point)

You are testing an e-commerce system that sells cooking supplies such as spices, flour, and other items in bulk. The units in which the items are sold are either grams (for spices and other expensive items) or kilograms (for flour and other inexpensive items). Regardless of the units, the smallest valid order amount is 0.5 units (e.g., half a gram of cardamom pods) and the largest valid order amount is 25.0 units (e.g., 25 kilograms of sugar). The precision of the unit's field is 0.1 units.

Which of the following is a set of input values that cover the boundary values with two-point boundary values for this field?

- a) 0.3, 10.0, 28.0
- b) 0.4, 0.5, 0.6, 24, 9, 25, 0, 25.1
- c) 0.4, 0.5, 25.0 25.1
- d) 0.5, 0.6, 24.9, 25.0

Select ONE option.

Question #27 (1 Point)

Consider the following decision table for the portion of an online airline reservation system that allows frequent flyers to redeem points for reward travel:

Condition	1	2	3
Account/password okay	N	Y	Y
Sufficient points	-	N	Y
Action			
Show flight history	N	Y	Y
Allow reward travel	N	N	Y

Suppose that there are two equivalence partitions for the condition where “Account/password okay” is not true, one where the account is invalid and another where the account is valid, but the password is invalid. Suppose that there is only one equivalence partition corresponding to the condition where “Account/password okay” is true, where both the account and password are valid.

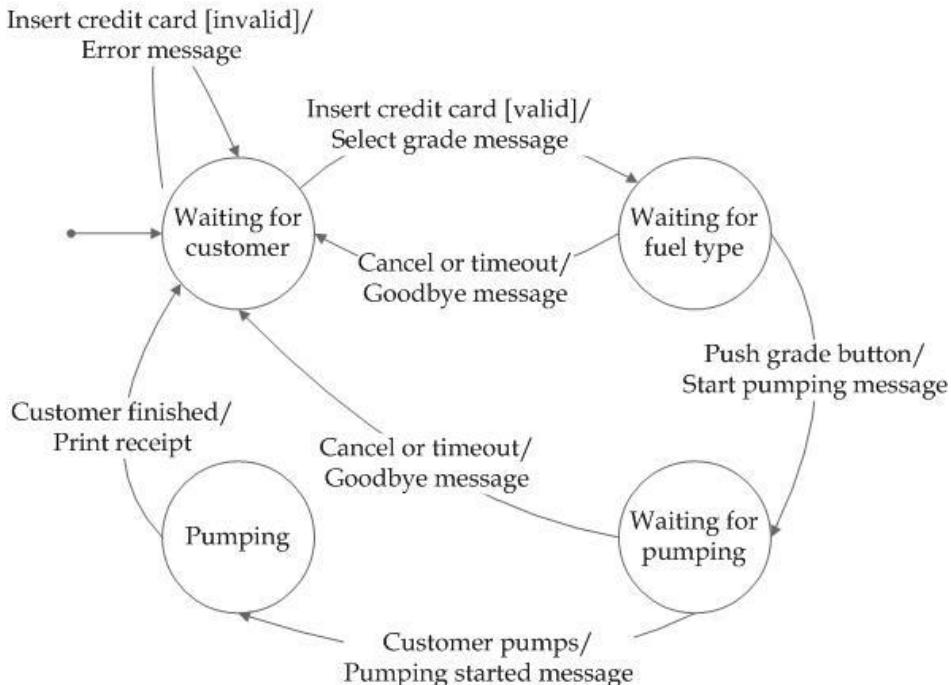
If you want to design tests to cover the equivalence partitions for “Account/password okay” and also for this portion of the decision table, what is the minimum number of tests required?

- a) 2
- b) 3
- c) 4
- d) 9

Select ONE option.

Question #28 (1 Point)

Consider the following state transition diagram for a credit-card only, unattended gasoline pump:



Assume that you want to develop the minimum number of tests to cover each transition in the state transition diagram. Assume further that each test must start at the beginning state, waiting for customer, and each test ends when a transition arrives at the beginning state. How many tests do you need?

- a) 4
- b) 7
- c) 1
- d) Infinite

Select ONE option.

Question #29 (1 Point)

You are testing an e-commerce system that sells cooking supplies such as spices, flour, and other items in bulk. The units in which the items are sold are either grams (for spices and other expensive items) or kilograms (for flour and other inexpensive items). Regardless of the units, the smallest valid order amount is 0.5 units (e.g., half a gram of cardamom pods) and the largest valid order amount is 25.0 units (e.g., 25 kilograms of sugar). The precision of the units' field is 0.1 units.

Which of the following is a MINIMAL set of input values that cover the equivalence partitions for this field?

- a) 10.0, 28.0
- b) 0.4, 0.5, 25.0, 25.1
- c) 0.2, 0.9, 29.5
- d) 12.3

Select ONE option.

Question #30 (1 Point)

You are working as a tester on an online banking system. Availability is considered one of the top products (quality) risks for the system. You find a reproducible failure that results in customers losing their connections to the bank Web site when transferring funds between common types of accounts and being unable to reconnect for between three and five minutes.

Which of the following would be a good summary for a defect report for this failure, one that captures both the essence of the failure and its impact on stakeholders?

- a) Web server logs show error 0x44AB27 when running test 07.005, which is not an expected error message in /tmp filesystem
- b) Developers have introduced major availability defect which will seriously upset our customers
- c) Performance is slow and reliability flaky under load
- d) Typical funds-transfer transaction results in termination of customer session, with a delay in availability when attempting to reconnect

Select ONE option.

Question #31 (1 Point)

You are testing a mobile app that allows users to find a nearby restaurant, based on the type of food they want to eat. Consider the following list of test cases, priorities (smaller number is high priority), and dependencies, in the following format:

Test case number	Test condition covered	Priority	Logical dependency
01.001	Select type of food	3	none
01.002	Select restaurant	2	01.001
01.003	Get directions	1	01.002
01.004	Call restaurant	1	01.002

Which of the following is a possible test execution schedule that considers both priorities and dependencies?

- a) 01.001, 01.002, 01.003, 01.005,
- b) 01.001, 01.002, 01.004, 01.003,
- c) 01.003, 01.004, 01.002, 01.001,
- d) 01.001, 01.002, 01.004, 01.005,

Select ONE option.

Question #32 (1 Point)

Which of the following is a common test metric often used to monitor BOTH test preparation and test execution?

- a) Test case status
- b) Defect find/fix rates
- c) Test environment preparation
- d) Estimated cost to find the next defect

Select ONE option.

Question #33 (1 Point)

Which of the following are two factors that can be used to determine the level of risk?

- a) Testing and development
- b) Dynamic and reactive
- c) Statement and decision
- d) Likelihood and impact

Select ONE option.

Question #34 (1 Point)

You are working as a project manager on an in-house banking software project. To prevent rework and excessive find/fix/retest cycles, the following process has been put in place for resolving a defect once it is found in the test lab:

1. The assigned developer finds and fixes the defect, then creates an experimental build
2. A peer developer reviews, unit tests, and confirmation tests the defect fix on his/her desktop
3. A tester – usually the one who found the defect – confirmation tests the defect fix in the development environment
4. Once a day, a new release with all confirmed defect fixes included, is installed in the test environment
5. The same tester from step 3 confirmation tests the defect fix in the test environment

Nevertheless, a large number of defects which the testers confirmed as fixed in the development environment (in step 3) are somehow failing confirmation testing in the test environment, with the resulting rework and cycle time outcomes. You have the highest confidence in your testers and have ruled out mistakes or omissions in step 3.

Which of the following is the MOST likely part of the process to check next?

- a) The activity of developers, who may not be adequately testing in step 2
- b) The activity of testers, who may be confused about what to test in step 5
- c) Configuration management, which may not be maintaining the integrity of the product in step 4
- d) The activity of developers, who may not be fixing defects properly in step 1

Select ONE option.

Question #35 (1 Point)

You are engaged in planning a test effort for a new mobile banking application. As part of estimation, you first meet with the proposed testers and others on the project. The team is well-coordinated and has already worked on similar projects. To verify the resulting estimate, you then refer to some industry averages for testing effort and costs on similar projects, published by a reputable consultant.

Which statement accurately describes your estimation approach?

- a) A simultaneous expert-based and metrics-based approach
- b) Primarily an expert-based approach, augmented with a metrics-based approach
- c) Primarily a metrics-based approach, augmented with an expert-based approach
- d) Primarily planning poker, checked by velocity from burndown charts

Select ONE option.

Question #36 (1 Point)

During a project following Agile methods, you find a discrepancy between the developer's interpretation of an acceptance criteria and the product owner's interpretation, which you bring up during a user story refinement session. Which of the following is a benefit of test independence exemplified by this situation?

- a) Recognizing different kinds of failures
- b) Taking primary responsibility for quality
- c) Removing a defect early
- d) Challenging stakeholder assumptions

Select ONE option.

Question #37 (1 Point)

You are defining the process for carrying out product risk analysis as part of each iteration on an Agile project. Which of the following is the proper place to document this process in a test plan?

- a) Scope of testing
- b) Approach of testing
- c) Metrics of testing
- d) Configuration management of the test object

Select ONE option.

Question #38 (1 Point)

Consider the following list of undesirable outcomes that could occur on a mobile app development effort:

- A. Incorrect totals on screens
- B. Change to acceptance criteria during acceptance testing
- C. Users find the soft keyboard too hard to use with your app
- D. System responds too slowly to user input during search string entry
- E. Testers not allowed to report test results in daily standup meetings

Which of the following properly classifies these outcomes as project and product risks?

- a) Product risks: B, E; Project risks: A, C, D
- b) Product risks: A, C, D; Project risks: B, E
- c) Product risks: A, C, D, E Project risks: B
- d) Product risks: A, C Project risks: B, D, E

Select ONE option.

Question #39 (1 Point)

You have just completed a pilot project for a regression testing tool. You understand the tool much better and have tailored your testing process to it. You have standardized an approach to using the tool and its associated work products. Which of the following is a typical test automation pilot project goal that remains to be carried out?

- a) Learn more details about the tool
- b) See how the tool would fit with existing processes and practices
- c) Decide on standard ways of using, managing, storing, and maintaining the tool and the test assets
- d) Assess whether the benefits will be achieved at reasonable cost

Select ONE option.

Question #40 (1 Point)

Which of the following tools is most useful for reporting test metrics?

- a) Test management tool
- b) Static analysis tool
- c) Coverage tool
- d) Model-Based testing tools

Select ONE option.

ISTQB Foundation Sample Question Paper No. 1

1. Deciding How much testing is enough should take into account :-

- i. Level of Risk including Technical and Business product and project risk
- ii. Project constraints such as time and budget
- iii. Size of Testing Team
- iv. Size of the Development Team

- a) i,ii,iii are true and iv is false
- b) i,,iv are true and ii is false
- c) i,ii are true and iii,iv are false
- d) ii,iii,iv are true and i is false

2. Test planning has which of the following major tasks?

- i. Determining the scope and risks, and identifying the objectives of testing.
- ii. Determining the test approach (techniques,test items, coverage, identifying and interfacing the teams involved in testing , testware)
- iii. Reviewing the Test Basis (such as requirements,architecture,design,interface)
- iv. Determining the exit criteria.

- a) i,ii,iv are true and iii is false
- b) i,,iv are true and ii is false
- c) i,ii are true and iii,iv are false
- d) ii,iii,iv are true and i is false

3. Evaluating testability of the requirements and system are a part of which phase:-

- a) Test Analysis and Design
- b) Test Planning and control
- c) Test Implementation and execution
- d) Evaluating exit criteria and reporting

4. 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
- b. cLASS
- c. CLass
- d. CLa01ss

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

An employee has £4000 of salary tax free. The next £1500 is taxed at 10% The next £28000 is taxed at 22% Any further amount is taxed at 40% Which of these groups of numbers would fall into the same equivalence class?

- a) £4800; £14000; £28000
- b) £5200; £5500; £28000
- c) £28001; £32000; £35000
- d) £5800; £28000; £32000

6. Which of the following has highest level of independence in which test cases are :

- a) Designed by persons who write the software under test
- b) Designed by a person from a different section
- c) Designed by a person from a different organization
- d) Designed by another person

7. We use the output of the requirement analysis, the requirement specification as the input for writing :-

- a) User Acceptance Test Cases
- b) Integration Level Test Cases
- c) Unit Level Test Cases
- d) Program specifications

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 obsoleteness.

- 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.

9. Which of the following uses Impact Analysis most?

- a) Component testing
- b) Non-functional system testing
- c) User acceptance testing
- d) Maintenance testing

10. What is the expected result for each of the following test cases?

	Rule 1	Rule 2	Rule 3	Rule 4
Conditions				
Citibank Card Member	Yes	Yes	No	No
Type of Room	Silver	Platinum	Silver	Platinum
Actions				
Offer upgrade to Gold Luxury	Yes	No	No	No
Offer upgrade to Silver	N/A	Yes	N/A	No

- A. Citibank card member, holding a Silver room
- B. Non Citibank-member, holding a Platinum room

- a) A – Don't offer any upgrade, B – Don't offer any upgrade.
- b) A – Don't offer any upgrade, B – Offer upgrade to Gold.
- c) A – Offer upgrade to Silver, B – Offer upgrade to Silver.
- d) A – Offer upgrade to Gold, B – Don't offer any upgrade.

11. Repeated Testing of an already tested program, after modification, to discover any defects introduced or uncovered as a result of the changes in the software being tested or in another related or unrelated software component:

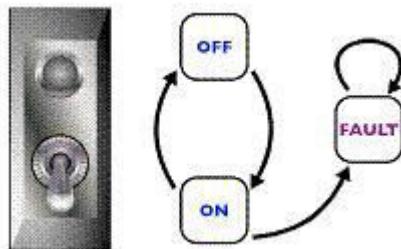
- a) Re Testing .
- b) Confirmation Testing
- c) Regression Testing
- d) Negative Testing

12. Impact Analysis helps to decide :-

- a) How much regression testing should be done.
- b) Exit Criteria
- c) How many more test cases need to written.
- d) Different Tools to perform Regression Testing

13. Functional system testing is:

- a) testing that the system functions with other systems
- b) testing that the components that comprise the system function together
- c) testing the end to end functionality of the system as a whole
- d) testing the system performs functions within specified response times



14. Consider the above state transition diagram of a switch.

Which of the following represents an invalid state transition?

- a) OFF to ON
- b) ON to OFF
- c) FAULT to ON

15. Peer Reviews are also called as :-

- a) Inspection
- b) Walkthrough
- c) Technical Review
- d) Formal Review

16. Consider the following statements:

- i. 100% statement coverage guarantees 100% branch coverage.
- ii. 100% branch coverage guarantees 100% statement coverage.
- iii. 100% branch coverage guarantees 100% decision coverage.
- iv. 100% decision coverage guarantees 100% branch coverage.
- v. 100% statement coverage guarantees 100% decision coverage.

- a) ii is True; i, iii, iv & v are False
- b) i & v are True; ii, iii & iv are False
- c) ii & iii are True; i, iv & v are False
- d) ii, iii & iv are True; i & v are False

17. 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

18. Match every stage of the software Development Life cycle with the Testing Life cycle:*i. Hi-level design a Unit tests*

- ii. Code b Acceptance tests*
- iii. Low-level design c System tests*
- iv. Business requirements d Integration tests*

- a) i-d , ii-a , iii-c , iv-b
- b) i-c , ii-d , iii-a , iv-b
- c) i-b , ii-a , iii-d , iv-c
- d) i-c , ii-a , iii-d , iv-b

19. Which of the following is not phase of the Fundamental Test Process?

Control

- b) Test implementation and Execution
- c) Requirement Analysis
- d) Evaluating Exit criteria and reporting

20. 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

21. 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

22. 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
- d) iv, ii is correct

23. Test Conditions are derived from :-

- a) Specifications
- b) Test Cases
- c) Test Data
- d) Test Design

24. 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.

25. Regression testing should be performed:

- i. every week
 - ii. after the software has changed
 - iii. as often as possible
 - iv. when the environment has changed
 - v. when the project manager says
- a) i & ii are true, iii, iv & v are false
 - b) ii, iii & iv are true, i & v are false
 - c) ii & iv are true, i, iii & v are false

- d) ii is true, i, iii, iv & v are false

26. Benefits of Independent Testing

- a) Independent testers are much more qualified than Developers
- b) Independent testers see other and different defects and are unbiased.
- c) Independent Testers cannot identify defects.
- d) Independent Testers can test better than developers

27. Minimum Tests Required for Statement Coverage and Branch Coverage :-Read P

Read Q

If p+q > 100 then

Print "Large"

End if

If p > 50 then

Print "pLarge"

End if

a) Statement coverage is 2, Branch Coverage is 2

b) Statement coverage is 3 and branch coverage is 2

c) Statement coverage is 1 and branch coverage is 2

d) Statement Coverage is 4 and Branch coverage is 2

28. Minimum Test Required for Statement Coverage :-Disc = 0

Order-qty = 0

Read Order-qty

If Order-qty >=20 then

Disc = 0.05

If Order-qty >=100 then

Disc =0.1

End if

End if

a) Statement coverage is 4

b) Statement coverage is 1

c) Statement coverage is 3

d) Statement Coverage is 2

29. The structure of an incident report is covered in the Standard for Software Test Documentation IEEE 829 and is called as : -

- a) Anomaly Report
- b) Defect Report
- c) Test Defect Report
- d) Test Incident Report

30. Which of the following is the task of a Test Lead / Leader.

- i. Interaction with the Test Tool Vendor to identify best ways to leverage test tool on the project.
- ii. Write Test Summary Reports based on the information gathered during testing
- iii. Decide what should be automated , to what degree and how.
- 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

31. 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

32. Which of the following is a part of Test Closure Activities?*i. Checking which planned deliverables have been delivered*

- ii. Defect report analysis.*
 - iii. Finalizing and archiving testware.*
 - iv. Analyzing lessons.*
- a) i , ii , iv are true and iii is false
 - b) i , ii , iii are true and iv is false
 - c) i , iii , iv are true and ii is false
 - d) All of above are true

33. Which of the following will be the best definition for Testing :-*a) The goal / purpose of testing is to demonstrate that the program works.*
b) The purpose of testing is to demonstrate that the program is defect free.
c) The purpose of testing is to demonstrate that the program does what it is supposed to do.
d) Testing is executing Software for the purpose of finding defects.

34. Which of the following is not a type of incremental testing approach?*a) Top down*
b) Big-bang
c) Bottom up
d) Functional incrementation.

35. Drivers are also known as:

- i. Spade*
 - ii. Test harness*
 - iii. Scaffolding*
- a) i , ii are true and iii is false
 - b) i , iii are true and ii is false
 - c) ii , iii are true and i is false
 - d) All of the above are true

36. 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

37. 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

38. The selection of a test approach should consider the context :-*i. Risk of Failure of the Project, hazards to the product and risks of product failure to humans*

- ii. Skills and experience of the people in the proposed technique, tools and methods*
- iii. The objective of the testing endeavor and the mission of the testing team.*
- iv. The size of the testing Team*

- a) i,ii,iii,iv are true
- b) i,ii,iii are true and iv is false.
- c) ii,iii,iv are true and i is false.
- d) i,iv are true and ii, iii are false.

39. In case of Large Systems :-*a) Only few tests should be run*

- b) Testing should be on the basis of Risk*
- c) Only Good Test Cases should be executed.*
- d) Test Cases written by good test engineers should be executed.*

40. 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*

Answers :

- 1 c
- 2 a
- 3 a
- 4 d
- 5 d
- 6 c
- 7 a
- 8 b
- 9 d
- 10 d
- 11 c
- 12 a
- 13 c
- 14 c
- 15 c
- 16 d
- 17 a
- 18 d
- 19 c
- 20 b
- 21 a
- 22 a
- 23 a
- 24 c
- 25 c
- 26 b
- 27 c
- 28 b
- 29 d
- 30 a
- 31 a

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32 c
33 d
34 b
35 c
36 b
37 b
38 b
39 b
40 a

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ISTQB Foundation Sample Question Paper No. 2

1. 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

2. Regression testing should be performed:

- v) every week
 - w) after the software has changed
 - x) as often as possible
 - y) when the environment has changed
 - z) when the project manager says
-
- a) v & w are true, x – z are false
 - b) w, x & y are true, v & z are false
 - c) w & y are true, v, x & z are false
 - d) w is true, v, x y and z are false
 - e) all of the above are true

3. IEEE 829 test plan documentation standard contains all of the following except:

- a) test items
- b) test deliverables
- c) test tasks
- d) test environment
- e) test specification

4. 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

5. Order numbers on a stock control system can range between 10000 and 99999 inclusive. Which of the following inputs might be a result of designing tests for only valid equivalence classes and valid boundaries:

- a) 1000, 5000, 99999
- b) 9999, 50000, 100000
- c) 10000, 50000, 99999
- d) 10000, 99999
- e) 9999, 10000, 50000, 99999, 10000

6. Consider the following statements about early test design:

- i. early test design can prevent fault multiplication
- ii. faults found during early test design are more expensive to fix

- iii. early test design can find faults
 - iv. early test design can cause changes to the requirements
 - v. early test design takes more effort
- a) i, iii & iv are true. II & v are false
 - b) iii is true, I, ii, iv & v are false
 - c) iii & iv are true. i, ii & v are false
 - d) i, iii, iv & v are true, ii us false
 - e) i & iii are true, ii, iv & v are false

7. Non-functional system testing includes:

- a) testing to see where the system does not function properly
- b) testing quality attributes of the system including performance and usability
- c) testing a system feature using only the software required for that action
- d) testing a system feature using only the software required for that function
- e) testing for functions that should not exist

8. 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

9. Which of the following is the main purpose of the integration strategy for integration testing in the small?

- a) to ensure that all of the small modules are tested adequately
- b) to ensure that the system interfaces to other systems and networks
- c) to specify which modules to combine when and how many at once
- d) to ensure that the integration testing can be performed by a small team
- e) to specify how the software should be divided into modules

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

- a) to know when a specific test has finished its execution
- b) to ensure that the test case specification is complete
- c) to set the criteria used in generating test inputs
- d) to know when test planning is complete
- e) to plan when to stop testing

11. Consider the following statements

- i. an incident may be closed without being fixed
 - ii. incidents may not be raised against documentation
 - iii. the final stage of incident tracking is fixing
 - iv. the incident record does not include information on test environments
 - v. incidents should be raised when someone other than the author of the software performs the test
- a) ii and v are true, I, iii and iv are false
 - b) i and v are true, ii, iii and iv are false
 - c) i, iv and v are true, ii and iii are false
 - d) i and ii are true, iii, iv and v are false

e) i is true, ii, iii, iv and v are false

12. 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

13. Given the following:

```
Switch PC on  
Start "outlook"  
IF outlook appears THEN  
Send an email  
Close outlook
```

- a) 1 test for statement coverage, 1 for branch coverage
- b) 1 test for statement coverage, 2 for branch coverage
- c) 1 test for statement coverage. 3 for branch coverage
- d) 2 tests for statement coverage, 2 for branch coverage
- e) 2 tests for statement coverage, 3 for branch coverage

14. Given the following code, which is true:

```
IF A > B THEN  
C = A - B  
ELSE  
C = A + B  
ENDIF  
Read D  
IF C = D Then  
Print "Error"  
ENDIF
```

- a) 1 test for statement coverage, 3 for branch coverage
- b) 2 tests for statement coverage, 2 for branch coverage
- c) 2 tests for statement coverage. 3 for branch coverage
- d) 3 tests for statement coverage, 3 for branch coverage
- e) 3 tests for statement coverage, 2 for branch coverage

15. Consider the following:

Pick up and read the newspaper

Look at what is on television

If there is a program that you are interested in watching then switch the television on and watch the program

Otherwise

Continue reading the newspaper

If there is a crossword in the newspaper then try and complete the crossword

- a) SC = 1 and DC = 1
- b) SC = 1 and DC = 2
- c) SC = 1 and DC = 3
- d) SC = 2 and DC = 2
- e) SC = 2 and DC = 3

16. 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) Analyse your needs and requirements
- d) Find out what your budget would be for the tool
- e) Search the internet

17. When a new testing tool is purchased, it should be used first by:

- a) A small team to establish the best way to use the tool
- b) Everyone who may eventually have some use for the tool
- c) The independent testing team
- d) The managers to see what projects it should be used in
- e) The vendor contractor to write the initial scripts

18. What can static analysis NOT find?

- a) The use of a variable before it has been defined
- b) Unreachable (“dead”) code
- c) Whether the value stored in a variable is correct
- d) The re-definition of a variable before it has been used
- e) Array bound violations

19. Which of the following is NOT a black box technique:

- a) Equivalence partitioning
- b) State transition testing
- c) LCSAJ
- d) Syntax testing
- e) Boundary value analysis

20. Beta testing is:

- a) Performed by customers at their own site
- b) Performed by customers at their software developer’s site
- c) Performed by an independent test team
- d) Useful to test bespoke software
- e) Performed as early as possible in the lifecycle

21. Given the following types of tool, which tools would typically be used by developers and which by an independent test team:

- i. static analysis
 - ii. performance testing
 - iii. test management
 - iv. dynamic analysis
 - v. test running
 - vi. test data preparation
- a) developers would typically use i, iv and vi; test team ii, iii and v
 - b) developers would typically use i and iv; test team ii, iii, v and vi
 - c) developers would typically use i, ii, iii and iv; test team v and vi
 - d) developers would typically use ii, iv and vi; test team I, ii and v
 - e) developers would typically use i, iii, iv and v; test team ii and vi

22. The main focus of acceptance testing is:

- a) finding faults in the system
- b) ensuring that the system is acceptable to all users
- c) testing the system with other systems
- d) testing for a business perspective
- e) testing by an independent test team

23. Which of the following statements about the component testing standard is false:

- a) black box design techniques all have an associated measurement technique
- b) white box design techniques all have an associated measurement technique
- c) cyclomatic complexity is not a test measurement technique
- d) black box measurement techniques all have an associated test design technique
- e) white box measurement techniques all have an associated test design technique

24. Which of the following statements is NOT true:

- a) inspection is the most formal review process
- b) inspections should be led by a trained leader
- c) managers can perform inspections on management documents
- d) inspection is appropriate even when there are no written documents
- e) inspection compares documents with predecessor (source) documents

25. A typical commercial test execution tool would be able to perform all of the following EXCEPT:

- a) generating expected outputs
- b) replaying inputs according to a programmed script
- c) comparison of expected outcomes with actual outcomes
- d) recording test inputs
- e) reading test values from a data file

26. The difference between re-testing and regression testing is

- a) re-testing is running a test again; regression testing looks for unexpected side effects
- b) re-testing looks for unexpected side effects; regression testing is repeating those tests
- c) re-testing is done after faults are fixed; regression testing is done earlier
- d) re-testing uses different environments, regression testing uses the same environment
- e) re-testing is done by developers, regression testing is done by independent testers

27. Expected results are:

- a) only important in system testing
- b) only used in component testing
- c) never specified in advance
- d) most useful when specified in advance
- e) derived from the code

28. Test managers should not:

- a) report on deviations from the project plan
- b) sign the system off for release
- c) re-allocate resource to meet original plans
- d) raise incidents on faults that they have found
- e) provide information for risk analysis and quality improvement

29. Unreachable code would best be found using:

- a) code reviews
- b) code inspections
- c) a coverage tool
- d) a test management tool
- e) a static analysis tool

30. 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

31. What information need not be included in a test incident report:

- a) how to fix the fault
- b) how to reproduce the fault
- c) test environment details
- d) severity, priority
- e) the actual and expected outcomes

32. Which expression best matches the following characteristics or review processes:

1. led by author
2. undocumented
3. no management participation
4. led by a trained moderator or leader
5. uses entry exit criteria

- s) inspection
- t) peer review
- u) informal review
- v) walkthrough

- a) s = 4, t = 3, u = 2 and 5, v = 1
- b) s = 4 and 5, t = 3, u = 2, v = 1
- c) s = 1 and 5, t = 3, u = 2, v = 4

- d) $s = 5, t = 4, u = 3, v = 1$ and 2
- e) $s = 4$ and 5, $t = 1, u = 2, v = 3$

33. Which of the following is NOT part of system testing:

- a) business process-based testing
- b) performance, load and stress testing
- c) requirements-based testing
- d) usability testing
- e) top-down integration testing

34. What statement about expected outcomes is FALSE:

- a) expected outcomes are defined by the software's behaviour
- b) expected outcomes are derived from a specification, not from the code
- c) expected outcomes include outputs to a screen and changes to files and databases
- d) expected outcomes should be predicted before a test is run
- e) expected outcomes may include timing constraints such as response times

35. The standard that gives definitions of testing terms is:

- a) ISO/IEC 12207
- b) BS7925-1
- c) BS7925-2
- d) ANSI/IEEE 829
- e) ANSI/IEEE 729

36. 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

37. Which of the following is NOT included in the Test Plan document of the Test Documentation Standard:

- a) Test items (i.e. software versions)
- b) What is not to be tested
- c) Test environments
- d) Quality plans
- e) Schedules and deadlines

38. Could reviews or inspections be considered part of testing:

- a) No, because they apply to development documentation
- b) No, because they are normally applied before testing
- c) No, because they do not apply to the test documentation
- d) Yes, because both help detect faults and improve quality
- e) Yes, because testing includes all non-constructive activities

39. Which of the following is not part of performance testing:

- a) Measuring response time
- b) Measuring transaction rates
- c) Recovery testing

- d) Simulating many users
- e) Generating many transactions

40. 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

Answers:

- 1 C
- 2 C
- 3 E
- 4 E
- 5 C
- 6 A
- 7 B
- 8 B
- 9 C
- 10 E
- 11 B
- 12 B
- 13 B
- 14 B
- 15 E
- 16 C
- 17 B
- 18 C
- 19 C
- 20 A
- 21 B
- 22 D
- 23 A
- 24 D
- 25 A
- 26 A
- 27 D
- 28 C
- 29 E
- 30 D
- 31 A
- 32 B
- 33 E
- 34 A
- 35 B
- 36 B
- 37 D
- 38 D

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39 C
40 B

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ISTQB Foundation Sample Question Paper No. 3

1. Software testing activities should start

- a. as soon as the code is written
- b. during the design stage
- c. when the requirements have been formally documented
- d. as soon as possible in the development life cycle

2. 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

3. What is the main reason for testing software before releasing it?

- a. to show that system will work after release
- b. to decide when the software is of sufficient quality to release
- c. to find as many bugs as possible before release
- d. to give information for a risk based decision about release

4. which of the following statements is not true

- a. performance testing can be done during unit testing as well as during the testing of whole system
- b. The acceptance test does not necessarily include a regression test
- c. Verification activities should not involve testers (reviews, inspections etc)
- d. Test environments should be as similar to production environments as possible

5. When reporting faults found to developers, testers should be:

- a. as polite, constructive and helpful as possible
- b. firm about insisting that a bug is not a “feature” if it should be fixed
- c. diplomatic, sensitive to the way they may react to criticism
- d. All of the above

6. In which order should tests be run?

- a. the most important tests first
- b. the most difficult tests first(to allow maximum time for fixing)
- c. the easiest tests first(to give initial confidence)
- d. the order they are thought of

7. The later in the development life cycle a fault is discovered, the more expensive it is to fix. why?

- a. the documentation is poor, so it takes longer to find out what the software is doing.
- b. wages are rising
- c. the fault has been built into more documentation, code, tests, etc
- d. none of the above

8. Which is not true-The black box tester

- a. should be able to understand a functional specification or requirements document
- b. should be able to understand the source code.
- c. is highly motivated to find faults
- d. is creative to find the system's weaknesses

9. A test design technique is

- a. a process for selecting test cases
- b. a process for determining expected outputs
- c. a way to measure the quality of software
- d. a way to measure in a test plan what has to be done

10. Testware(test cases, test dataset)

- a. needs configuration management just like requirements, design and code
- b. should be newly constructed for each new version of the software
- c. is needed only until the software is released into production or use
- d. does not need to be documented and commented, as it does not form part of the released software system

11. An incident logging system

- a only records defects
- b is of limited value
- c is a valuable source of project information during testing if it contains all incidents
- d. should be used only by the test team.

12. Increasing the quality of the software, by better development methods, will affect the time needed for testing (the test phases) by:

- a. reducing test time
- b. no change
- c. increasing test time
- d. can't say

13. Coverage measurement

- a. is nothing to do with testing
- b. is a partial measure of test thoroughness
- c. branch coverage should be mandatory for all software
- d. can only be applied at unit or module testing, not at system testing

14. When should you stop testing?

- a. when time for testing has run out.
- b. when all planned tests have been run
- c. when the test completion criteria have been met

- d. when no faults have been found by the tests run

15. Which of the following is true?

- a. Component testing should be black box, system testing should be white box.
- b. if u find a lot of bugs in testing, you should not be very confident about the quality of software
- c. the fewer bugs you find, the better your testing was
- d. the more tests you run, the more bugs you will find.

16. What is the important criterion in deciding what testing technique to use?

- a. how well you know a particular technique
- b. the objective of the test
- c. how appropriate the technique is for testing the application
- d. whether there is a tool to support the technique

17. If the pseudocode below were a programming language ,how many tests are required to achieve 100% statement coverage?

1. If x=3 then
2. Display_messageX;
3. If y=2 then
4. Display_messageY;
5. Else
6. Display_messageZ;
7. Else
8. Display_messageZ;

- a. 1
- b. 2
- c. 3
- d. 4

18. Using the same code example as question 17, how many tests are required to achieve 100% branch/decision coverage?

- a. 1
- b. 2
- c. 3
- d. 4

19. Which of the following is NOT a type of non-functional test?

- a. State-Transition
- b. Usability
- c. Performance
- d. Security

20. Which of the following tools would you use to detect a memory leak?

- a. State analysis
- b. Coverage analysis
- c. Dynamic analysis
- d. Memory analysis

21. Which of the following is NOT a standard related to testing?

- a. IEEE829
- b. IEEE610
- c. BS7925-1
- d. BS7925-2

22. which of the following is the component test standard?

- a. IEEE 829
- b. IEEE 610
- c. BS7925-1
- d. BS7925-2

23. which of the following statements are true?

- a. Faults in program specifications are the most expensive to fix.
- b. Faults in code are the most expensive to fix.
- c. Faults in requirements are the most expensive to fix
- d. Faults in designs are the most expensive to fix.

24. Which of the following is not the integration strategy?

- a. Design based
- b. Big-bang
- c. Bottom-up
- d. Top-down

25. Which of the following is a black box design technique?

- a. statement testing
- b. equivalence partitioning
- c. error- guessing
- d. usability testing

26. A program with high cyclometric complexity is almost likely to be:

- a. Large
- b. Small
- c. Difficult to write
- d. Difficult to test

27. Which of the following is a static test?

- a. code inspection
- b. coverage analysis
- c. usability assessment
- d. installation test

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

- a. white box
- b. glass box
- c. structural
- d. functional

29. A program validates a numeric field as follows:

values less than 10 are rejected, values between 10 and 21 are accepted, values greater than or equal to 22 are rejected

which of the following input values cover all of the equivalence partitions?

- a. 10,11,21
- b. 3,20,21
- c. 3,10,22
- d. 10,21,22

30. Using the same specifications as question 29, which of the following covers the MOST boundary values?

- a. 9,10,11,22
- b. 9,10,21,22
- c. 10,11,21,22
- d. 10,11,20,21

31. An input field takes the year of birth between 1900 and 2004. The boundary values for testing this field are

- a. 0,1900,2004,2005
- b. 1900, 2004
- c. 1899,1900,2004,2005
- d. 1899, 1900, 1901,2003,2004,2005

32. Which one of the following are non-functional testing methods?

- a. System testing
- b. Usability testing
- c. Performance testing
- d. Both b & c

33. Which of the following tools would be involved in the automation of regression test?

- a. Data tester
- b. Boundary tester
- c. Capture/Playback
- d. Output comparator.

34. Incorrect form of Logic coverage is:

- a. Statement Coverage
- b. Pole Coverage
- c. Condition Coverage
- d. Path Coverage

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

- a. Functionality
- b. Usability
- c. Supportability
- d. Maintainability

36. 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

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

```
if (Condition 1)
then statement 1
else statement 2
fi
if (Condition 2)
then statement 3
fi
```

.....

- a. 1
- b. 2
- c. 3
- d. None of the above

38. Acceptance test cases are based on what?

- a. Requirements
- b. Design

- c. Code
- d. Decision table

39. A common test technique during component test is

- a. Statement and branch testing
- b. Usability testing
- c. Security testing
- d. Performance testing

40. Statement Coverage will not check for the following.

- a. Missing Statements
- b. Unused Branches
- c. Dead Code
- d. Unused Statement

Answers:

- 1.d
- 2.b
- 3.d
- 4.c
- 5.d
- 6.a
- 7.c
- 8.b
- 9.a
- 10.a
- 11.c
- 12.a
- 13.b
- 14.c
- 15.b
- 16.b
- 17.c
- 18.c
- 19.a
- 20.c
- 21.b
- 22.d
- 23.c
- 24.a
- 25.b
- 26.d
- 27.a
- 28.d
- 29.c
- 30.b
- 31.c

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32.d
33.c
34.b
35.c
36.b
37.c
38.a
39.a
40.a

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ISTQB Foundation Sample Question Paper No. 4

1. We split testing into distinct stages primarily because:

- a) Each test stage has a different purpose.
- b) It is easier to manage testing in stages.
- c) We can run different tests in different environments.
- d) The more stages we have, the better the testing.

2. Which of the following is likely to benefit most from the use of test tools providing test capture and replay facilities?

- a) Regression testing
- b) Integration testing
- c) System testing
- d) User acceptance testing

3. Which of the following statements is NOT correct?

- a) A minimal test set that achieves 100% LCSAJ coverage will also achieve 100% branch coverage.
- b) A minimal test set that achieves 100% path coverage will also achieve 100% statement coverage.
- c) A minimal test set that achieves 100% path coverage will generally detect more faults than one that achieves 100% statement coverage.
- d) A minimal test set that achieves 100% statement coverage will generally detect more faults than one that achieves 100% branch coverage.

4. Which of the following requirements is testable?

- a) The system shall be user friendly.
- b) The safety-critical parts of the system shall contain 0 faults.
- c) The response time shall be less than one second for the specified design load.
- d) The system shall be built to be portable.

5. Analyse the following highly simplified procedure:

Ask: “What type of ticket do you require, single or return?”

IF the customer wants ‘return’

Ask: “What rate, Standard or Cheap-day?”

IF the customer replies ‘Cheap-day’

Say: “That will be £11:20”

ELSE

Say: “That will be £19:50”

ENDIF

ELSE

Say: “That will be £9:75”

ENDIF

Now decide the minimum number of tests that are needed to ensure that all the questions have been asked, all combinations have occurred and all replies given.

- a) 3
- b) 4
- c) 5d) 6

6 Error guessing:

- a) supplements formal test design techniques.
- b) can only be used in component, integration and system testing.

- c) is only performed in user acceptance testing.
- d) is not repeatable and should not be used.

7. Which of the following is NOT true of test coverage criteria?

- a) Test coverage criteria can be measured in terms of items exercised by a test suite.
- b) A measure of test coverage criteria is the percentage of user requirements covered.
- c) A measure of test coverage criteria is the percentage of faults found.
- d) Test coverage criteria are often used when specifying test completion criteria.

8. In prioritising what to test, the most important objective is to:

- a) find as many faults as possible.
- b) test high risk areas.
- c) obtain good test coverage.
- d) test whatever is easiest to test.

9. Given the following sets of test management terms (v-z), and activity descriptions (1-5), which one of the following best pairs the two sets?

v – test control
w – test monitoring
x - test estimation
y - incident management
z - configuration control

- 1 - calculation of required test resources
- 2 - maintenance of record of test results
- 3 - re-allocation of resources when tests overrun
- 4 - report on deviation from test plan
- 5 - tracking of anomalous test results

- a) v-3,w-2,x-1,y-5,z-4
- b) v-2,w-5,x-1,y-4,z-3
- c) v-3,w-4,x-1,y-5,z-2
- d) v-2,w-1,x-4,y-3,z-5

10. Which one of the following statements about system testing is NOT true?

- a) System tests are often performed by independent teams.
- b) Functional testing is used more than structural testing.
- c) Faults found during system tests can be very expensive to fix.
- d) End-users should be involved in system tests.

11. Which of the following is false?

- a) Incidents should always be fixed.
- b) An incident occurs when expected and actual results differ.
- c) Incidents can be analysed to assist in test process improvement.
- d) An incident can be raised against documentation.

12. Enough testing has been performed when:

- a) time runs out.
- b) the required level of confidence has been achieved.
- c) no more faults are found.

d) the users won't find any serious faults.

13. Which of the following is NOT true of incidents?

- a) Incident resolution is the responsibility of the author of the software under test.
- b) Incidents may be raised against user requirements.
- c) Incidents require investigation and/or correction.
- d) Incidents are raised when expected and actual results differ.

14. Which of the following is not described in a unit test standard?

- a) syntax testing
- b) equivalence partitioning
- c) stress testing
- d) modified condition/decision coverage

15. Which of the following is false?

- a) In a system two different failures may have different severities.
- b) A system is necessarily more reliable after debugging for the removal of a fault.
- c) A fault need not affect the reliability of a system.
- d) Undetected errors may lead to faults and eventually to incorrect behaviour.

16. Which one of the following statements, about capture-replay tools, is NOT correct?

- a) They are used to support multi-user testing.
- b) They are used to capture and animate user requirements.
- c) They are the most frequently purchased types of CAST tool.
- d) They capture aspects of user behaviour.

17. How would you estimate the amount of re-testing likely to be required?

- a) Metrics from previous similar projects
- b) Discussions with the development team
- c) Time allocated for regression testing
- d) a & b

18. Which of the following is true of the V-model?

- a) It states that modules are tested against user requirements.
- b) It only models the testing phase.
- c) It specifies the test techniques to be used.
- d) It includes the verification of designs.

19. The oracle assumption:

- a) is that there is some existing system against which test output may be checked.
- b) is that the tester can routinely identify the correct outcome of a test.
- c) is that the tester knows everything about the software under test.
- d) is that the tests are reviewed by experienced testers.

20. Which of the following characterises the cost of faults?

- a) They are cheapest to find in the early development phases and the most expensive to fix in the latest test phases.
- b) They are easiest to find during system testing but the most expensive to fix then.
- c) Faults are cheapest to find in the early development phases but the most expensive to fix then.
- d) Although faults are most expensive to find during early development phases, they are cheapest to fix

then.

21. Which of the following should NOT normally be an objective for a test?

- a) To find faults in the software.
- b) To assess whether the software is ready for release.
- c) To demonstrate that the software doesn't work.
- d) To prove that the software is correct.

22. Which of the following is a form of functional testing?

- a) Boundary value analysis
- b) Usability testing
- c) Performance testing
- d) Security testing

23. Which of the following would NOT normally form part of a test plan?

- a) Features to be tested
- b) Incident reports
- c) Risks
- d) Schedule

24. Which of these activities provides the biggest potential cost saving from the use of CAST?

- a) Test management
- b) Test design
- c) Test execution
- d) Test planning

25. Which of the following is NOT a white box technique?

- a) Statement testing
- b) Path testing
- c) Data flow testing
- d) State transition testing

26. Data flow analysis studies:

- a) possible communications bottlenecks in a program.
- b) the rate of change of data values as a program executes.
- c) the use of data on paths through the code.
- d) the intrinsic complexity of the code.

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

An employee has £4000 of salary tax free. The next £1500 is taxed at 10%

The next £28000 is taxed at 22%

Any further amount is taxed at 40%

To the nearest whole pound, which of these is a valid Boundary Value Analysis test case?

- a) £1500
- b) £32001
- c) £33501
- d) £28000

28. An important benefit of code inspections is that they:

- a) enable the code to be tested before the execution environment is ready.

- b) can be performed by the person who wrote the code.
- c) can be performed by inexperienced staff.
- d) are cheap to perform.

29. Which of the following is the best source of Expected Outcomes for User Acceptance Test scripts?

- a) Actual results
- b) Program specification
- c) User requirements
- d) System specification

30. What is the main difference between a walkthrough and an inspection?

- a) An inspection is lead by the author, whilst a walkthrough is lead by a trained moderator.
- b) An inspection has a trained leader, whilst a walkthrough has no leader.
- c) Authors are not present during inspections, whilst they are during walkthroughs.
- d) A walkthrough is lead by the author, whilst an inspection is lead by a trained moderator.

31. Which one of the following describes the major benefit of verification early in the life cycle?

- a) It allows the identification of changes in user requirements.
- b) It facilitates timely set up of the test environment.
- c) It reduces defect multiplication.
- d) It allows testers to become involved early in the project.

32. Integration testing in the small:

- a) tests the individual components that have been developed.
- b) tests interactions between modules or subsystems.
- c) only uses components that form part of the live system.
- d) tests interfaces to other systems.

33. Static analysis is best described as:

- a) the analysis of batch programs.
- b) the reviewing of test plans.
- c) the analysis of program code.
- d) the use of black box testing.

34. Alpha testing is:

- a) post-release testing by end user representatives at the developer's site.
- b) the first testing that is performed.
- c) pre-release testing by end user representatives at the developer's site.
- d) pre-release testing by end user representatives at their sites.

35. A failure is:

- a) found in the software; the result of an error.
- b) departure from specified behaviour.
- c) an incorrect step, process or data definition in a computer program.
- d) a human action that produces an incorrect result.

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

An employee has £4000 of salary tax free. The next £1500 is taxed at 10%
The next £28000 is taxed at 22%

Any further amount is taxed at 40%

Which of these groups of numbers would fall into the same equivalence class?

- a) £4800; £14000; £28000
- b) £5200; £5500; £28000
- c) £28001; £32000; £35000
- d) £5800; £28000; £32000

37. The most important thing about early test design is that it:

- a) makes test preparation easier.
- b) means inspections are not required.
- c) can prevent fault multiplication.
- d) will find all faults.

38. Which of the following statements about reviews is true?

- a) Reviews cannot be performed on user requirements specifications.
- b) Reviews are the least effective way of testing code.
- c) Reviews are unlikely to find faults in test plans.
- d) Reviews should be performed on specifications, code, and test plans.

39. Test cases are designed during:

- a) test recording.
- b) test planning.
- c) test configuration.
- d) test specification.

40. A configuration management system would NOT normally provide:

- a) linkage of customer requirements to version numbers.
- b) facilities to compare test results with expected results.
- c) the precise differences in versions of software component source code.
- d) restricted access to the source code library.

Answers:

- 1 A
- 2 A
- 3 D
- 4 C
- 5 A
- 6 A
- 7 C
- 8 B
- 9 C
- 10 D
- 11 A
- 12 B
- 13 A
- 14 C
- 15 B
- 16 B
- 17 D

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18 D
19 B
20 A
21 D
22 A
23 B
24 C
25 D
26 C
27 C
28 A
29 C
30 D
31 C
32 B
33 C
34 C
35 B
36 D
37 C
38 D
39 D
40 B

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ISTQB Foundation Sample Question Paper No. 5

1. An input field takes the year of birth between 1900 and 2004

The boundary values for testing this field are

- a. 0,1900,2004,2005
- b. 1900, 2004
- c. 1899,1900,2004,2005
- d. 1899, 1900, 1901,2003,2004,2005

2. Which one of the following are non-functional testing methods?

- a. System testing
- b. Usability testing
- c. Performance testing
- d. Both b & c

3. Which of the following tools would be involved in the automation of regression test?

- a. Data tester
- b. Boundary tester
- c. Capture/Playback
- d. Output comparator.

4. Incorrect form of Logic coverage is:

- a. Statement Coverage
- b. Pole Coverage
- c. Condition Coverage
- d. Path Coverage

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

- a. Functionality
- b. Usability
- c. Supportability
- d. Maintainability

6. 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

7. Boundary value testing

- a. Is the same as equivalence partitioning tests
- b. Test boundary conditions on, below and above the edges of input and output equivalence classes
- c. Tests combinations of input circumstances
- d. Is used in white box testing strategy

8. Pick the best definition of quality

- a. Quality is job one
- b. Zero defects
- c. Conformance to requirements
- d. Work as designed

9. Fault Masking is

- a. Error condition hiding another error condition
- b. Creating a test case which does not reveal a fault
- c. Masking a fault by developer
- d. Masking a fault by a tester

10. 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

11. 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

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

13. Given the Following program

IF X < Y

THEN Statement 1;

ELSE IF Y >= Z

THEN Statement 2;

END

McCabe's Cyclomatic Complexity is :

- a. 2
- b. 3
- c. 4
- d. 5

14. 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 1

else statement 2

fi

if (Condition 2)

then statement 3

fi

.....

a. 2 Test Cases

b. 3 Test Cases

c. 4 Test Cases

d. Not achievable

15. Acceptance test cases are based on what?

a. Requirements

b. Design

c. Code

d. Decision table

16. “How much testing is enough?”

a. This question is impossible to answer

b. This question is easy to answer

c. The answer depends on the risk for your industry, contract and special requirements

d. This answer depends on the maturity of your developers

17. A common test technique during component test is

a. Statement and branch testing

b. Usability testing

c. Security testing

d. Performance testing

18. Statement Coverage will not check for the following.

a. Missing Statements

b. Unused Branches

c. Dead Code

d. Unused Statement

19. 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

20. Code Coverage is used as a measure of what ?

- a. Defects
- b. Trends analysis
- c. Test Effectiveness
- d. Time Spent Testing

Answers

1 c

2 d

3 c

4 b

5 c

6 b

7 b

8 c

9 a

10 d

11 c

12 b

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13 b

14 c

15 a

16 c

17 a

18 a

19 d

20 c

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ISTQB Foundation Sample Question Paper No. 6

1. Which of the following is a major task of test planning?

- A Determining the test approach.
- B Preparing test specifications.
- C Evaluating exit criteria and reporting.
- D Measuring and analyzing results.

2. Which of the following statements is MOST OFTEN true?

- A Source-code inspections are often used in component testing.
- B Component testing searches for defects in programs that are separately testable.
- C Component testing is an important part of user acceptance testing.
- D Component testing aims to expose problems in the interactions between software and hardware components.

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

- An employee has £4000 of salary tax free.
 - The next £1500 is taxed at 10%.
 - The next £28000 after that is taxed at 22%.
 - Any further amount is taxed at 40%.
- To the nearest whole pound, which of these groups of numbers fall into three DIFFERENT equivalence classes?
- A £4000; £5000; £5500.
 - B £32001; £34000; £36500.
 - C £28000; £28001; £32001.
 - D £4000; £4200; £5600.

4. Which of the following will NOT be detected by static analysis?

- A Parameter type mismatches.
- B Errors in requirements.
- C Undeclared variables.
- D Uncalled functions.

5. Which of the following test activities can be automated?

- i Reviews and inspections.
 - ii Metrics gathering.
 - iii Test planning.
 - iv Test execution.
 - v Data generation.
- A i, iii, iv.
 - B i, ii, iii.
 - C ii, iv, v.
 - D ii, iii, v.

6. Which of the following is an objective of a pilot project for the introduction of a testing tool?

- A Evaluate testers' competence to use the tool.
- B Complete the testing of a key project.
- C Assess whether the benefits will be achieved at reasonable cost.
- D Discover what the requirements for the tool are.

7. What is the MAIN purpose of a Master Test Plan?

- A To communicate how incidents will be managed.
- B To communicate how testing will be performed.
- C To produce a test schedule.
- D To produce a work breakdown structure.

8. In a REACTIVE approach to testing when would you expect the bulk of the test design work to be begun?

- A After the software or system has been produced.
- B During development.
- C As early as possible.
- D During requirements analysis.

9. What is the objective of debugging?

- i To localise a defect.
 - ii To fix a defect.
 - iii To show value.
 - iv To increase the range of testing.
- A i, iii.
 - B ii, iii, iv.
 - C ii, iv.
 - D i, ii.

10. Given the following decision table

	Rule 1	Rule 2	Rule 3	Rule 4
Conditions				
UK resident?	False	True	True	True
Age between 18 - 55?	Don't care	False	True	True
Smoker?	Don't care	Don't care	False	True
Actions				
Insure client?	False	False	True	True
Offer 10% discount?	False	False	True	False

What is the expected result for each of the following test cases?

- A.TC1: Fred is a 32 year old smoker resident in London
- B.TC3: Jean-Michel is a 65 year non-smoker resident in Paris
- A A – Insure, 10% discount, B – Insure, no discount.
- B A – Don't insure, B – Don't insure.
- C A – Insure, no discount, B – Don't insure.

D A – Insure, no discount, B – Insure with 10% discount.

11. Which of the following are valid objectives for testing?

- i.To find defects.
- ii.To gain confidence in the level of quality.
- iii.To identify the cause of defects.
- iv.To prevent defects.

A i,ii, and iii.

B ii, iii and iv.

C i, ii and iv.

D i,iii and iv.

12.The process of designing test cases consists of the following activities:

- i. Elaborate and describe test cases in detail by using test design techniques.
- ii. Specify the order of test case execution.
- iii. Analyse requirements and specifications to determine test conditions.
- iv. Specify expected results.

According to the process of identifying and designing tests, what is the correct order of these

activities?

A iii, i, iv, ii.

B iii, iv, i, ii.

C iii, ii, i, iv.

D ii, iii, i, iv.

13. What is the main purpose of impact analysis for testers?

A To determine the programming effort needed to make the changes.

B To determine what proportion of the changes need to be tested.

C To determine how much the planned changes will affect users.

D To determine how the existing system may be affected by changes.

14. Which of the following requirements would be tested by a functional system test?

A The system must be able to perform its functions for an average of 23 hours 50 mins per day.

B The system must perform adequately for up to 30 users.

C The system must allow a user to amend the address of a customer.

D The system must allow 12,000 new customers per year.

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

An employee has £4000 of salary tax free.

The next £1500 is taxed at 10%.

The next £28000 after that is taxed at 22%.

Any further amount is taxed at 40%.

To the nearest whole pound, which of these is a valid Boundary Value Analysis

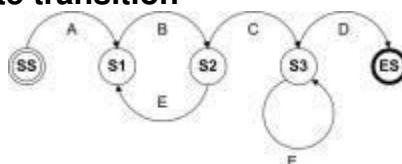
test case?

- A £28000.
- B £33501.
- C £32001.
- D £1500.

16.Which of the following defines the sequence in which tests should be executed?

- A Test plan.
- B Test procedure specification.
- C Test case specification.
- D Test design specification.

17. Given the following state transition



Which of the following series of state transitions below will provide 0-switch coverage?

- A A, B, E, B, C, F, D.
- B A, B, E, B, C, F, F.
- C A, B, E, B, C, D.
- D A, B, C, F, F, D.

18. Given the following decision table

	Rule 1	Rule 2	Rule 3	Rule 4
Conditions				
Frequent Flyer Member	Yes	Yes	No	No
Class	Business	Economy	Business	
Economy				
Actions				
Offer upgrade to First	Yes	No	No	No
Offer upgrade to Business	N/A	Yes	N/A	No

What is the expected result for each of the following test cases?

- A. Frequent flyer member, travelling in Business class
- B. Non-member, travelling in Economy class
- A A – Don't offer any upgrade, B – Don't offer any upgrade.
- B A – Don't offer any upgrade, B – Offer upgrade to Business class.
- C A – Offer upgrade to First, B – Don't offer any upgrade.
- D A – Offer upgrade to First, B – Offer upgrade to Business class.

19. During which fundamental test process activity do we determine if MORE tests are needed?

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

20. What is the difference between a project risk and a product risk?

A Project risks are potential failure areas in the software or system; product risks are risks

that surround the project's capability to deliver its objectives.

B Project risks are the risks that surround the project's capability to deliver its objectives;

product risks are

potential failure areas in the software or system.

C Project risks are typically related to supplier issues, organizational factors and technical

issues; product risks

are typically related to skill and staff shortages.

D Project risks are risks that delivered software will not work; product risks are typically related to supplier issues, organizational factors and technical issues.

21. Given the following specification, which of the following values for age are in the SAME equivalence partition?

If you are less than 18, you are too young to be insured.

Between 18 and 30 inclusive, you will receive a 20% discount.

Anyone over 30 is not eligible for a discount.

A 17, 18, 19.

B 29, 30, 31.

C 18, 29, 30.

D 17, 29, 31.

22. Considering the following pseudo-code, calculate the MINIMUM number of test cases for

statement coverage, and the MINIMUM number of test cases for decision coverage

respectively.

READ A

READ B

READ C

IF C>A THEN

IF C>B THEN

PRINT "C must be smaller than at least one number"

ELSE

```
PRINT "Proceed to next stage"  
ENDIF  
ELSE  
PRINT "B can be smaller than C"  
ENDIF  
A 3, 3.  
B 2, 3.  
C 2, 4.  
D 3, 2.
```

23. Which of the following is a benefit of independent testing?

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

24. Which of the following tools is most likely to contain a comparator?

- A Dynamic Analysis tool.
- B Test Execution tool.
- C Static Analysis tool.
- D Security tool.

25. Given the following State Table:

A	B	C	D	E	F
SS	S1	S2			
S1	S2				
S2	S3	S1			
S3	ES	S3			
ES					

Which of the following represents an INVALID state transition?

- A E from State S2.
- B E from State S3.
- C B from State S1.
- D F from State S3.

26. Which of the following is a characteristic of good testing in any life cycle model? A All document reviews involve the development team.

- B Some, but not all, development activities have corresponding test activities.
- C Each test level has test objectives specific to that level.
- D Analysis and design of tests begins as soon as development is complete.

27. Which activity in the fundamental test process includes evaluation of the testability of the requirements and system? A Test analysis and design.

- B Test planning and control.
- C Test closure.
- D Test implementation and execution.

28. The following statements are used to describe the basis for creating test cases using either black or white box techniques:

- i information about how the software is constructed.
- ii models of the system, software or components.
- iii analysis of the test basis documentation.
- iv analysis of the internal structure of the components.

Which combination of the statements describes the basis for black box techniques?

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

29. What is typically the MOST important reason to use risk to drive testing efforts?

- A Because testing everything is not feasible.
- B Because risk-based testing is the most efficient approach to finding bugs.
- C Because risk-based testing is the most effective way to show value.
- D Because software is inherently risky.

30. Which of the following defines the scope of maintenance testing?

- A The coverage of the current regression pack.
- B The size and risk of any change(s) to the system.
- C The time since the last change was made to the system.
- D Defects found at the last regression test run.

31. Which is the MOST important advantage of independence in testing?

- A An independent tester may find defects more quickly than the person who wrote the software.
- B An independent tester may be more focused on showing how the software works than the person who wrote the software.
- C An independent tester may be more effective and efficient because they are less familiar with the software than the person who wrote it.
- D An independent tester may be more effective at finding defects missed by the person who wrote the software.

32. For testing, which of the options below best represents the main concerns of Configuration Management?

- i. All items of testware are identified and version controlled;
- ii. All items of testware are used in the final acceptance test;

- iii. All items of testware are stored in a common repository;
 - iv. All items of testware are tracked for change;
 - v. All items of testware are assigned to a responsible owner;
 - vi. All items of testware are related to each other and to development items.
- A i, iv, vi.
B ii, iii, v.
C i, iii, iv.
D iv, v, vi.

33. Which of the following would be a valid measure of test progress?

- A Number of undetected defects.
- B Total number of defects in the product.
- C Number of test cases not yet executed.
- D Effort required to fix all defects.

34. Which of following statements is true? Select ALL correct options

Regression testing should be performed:

- i once a month
 - ii when a defect has been fixed
 - iii when the test environment has changed
 - iv when the software has changed
- A ii and iv.
B ii, iii and iv.
C i, ii and iii.
D i and iii.

35. In which of the following orders would the phases of a formal review usually occur?

- A Planning, preparation, kick off, meeting, rework, follow up.
- B Kick off, planning, preparation, meeting, rework, follow up.
- C Preparation, planning, kick off, meeting, rework, follow up.
- D Planning, kick off, preparation, meeting, rework, follow up.

36. Which of the following are valid objectives for incident reports?

- i. Provide developers and other parties with feedback about the problem to enable identification, isolation and correction as necessary.
 - ii. Provide ideas for test process improvement.
 - iii. Provide a vehicle for assessing tester competence.
 - iv. Provide testers with a means of tracking the quality of the system under test.
- A i, ii, iii.
B i, ii, iv.
C i, iii, iv.
D ii, iii, iv.

37. Consider the following techniques. Which are static and which are dynamic techniques?

- i. Equivalence Partitioning.
- ii. Use Case Testing.
- iii. Data Flow Analysis.
- iv. Exploratory Testing.
- v. Decision Testing.
- vi Inspections. A i-iv are static, v-vi are dynamic.
B iii and vi are static, i, ii, iv and v are dynamic.
C ii, iii and vi are static, i, iv and v are dynamic.
D vi is static, i-v are dynamic.

38. Why are static testing and dynamic testing described as complementary?

- A Because they share the aim of identifying defects and find the same types of defect.
- B Because they have different aims and differ in the types of defect they find.
- C Because they have different aims but find the same types of defect.
- D Because they share the aim of identifying defects but differ in the types of defect they find.

39. Which of the following are disadvantages of capturing tests by recording the actions of a manual tester?

- i The script may be unstable when unexpected events occur.
 - ii Data for a number of similar tests is automatically stored separately from the script.
 - iii Expected results must be added to the captured script.
 - iv The captured script documents the exact inputs entered by the tester.
 - v When replaying a captured test, the tester may need to debug the script if it doesn't play correctly.
- A i, iii, iv, v.
B ii, iv and v.
C i, ii and iv.
D i and v.

40. Which of the following is determined by the level of product risk identified?

- A Extent of testing.
- B Scope for the use of test automation.
- C Size of the test team.
- D Requirement for regression testing.

Answers

1. A
2. B
3. D
4. B
5. C
6. C
7. B
8. A

- 9. D
- 10. C
- 11. C
- 12. A
- 13. D
- 14. C
- 15. B
- 16. B
- 17. A
- 18. C
- 19. B
- 20. B
- 21. C
- 22. A
- 23. D
- 24. B
- 25. B
- 26. C
- 27. A
- 28. A
- 29. A
- 30. B
- 31. D
- 32. A
- 33. C
- 34. B
- 35. D
- 36. B
- 37. B
- 38. D
- 39. A
- 40. A

ISTQB Foundation Sample Question Paper No. 7

1. _____ Testing will be performed by the people at client own locations (1M)

- A. Alpha testing
- B. Field testing
- C. Performance testing
- D. System testing

2. System testing should investigate (2M)

- A. Non-functional requirements only not Functional requirements
- B. Functional requirements only not non-functional requirements
- C. Non-functional requirements and Functional requirements
- D. Non-functional requirements or Functional requirements

3. Which is the non-functional testing (1M)

- A. Performance testing
- B. Unit testing
- C. Regression testing
- D. Sanity testing

4. Who is responsible for document all the issues, problems and open point that were identified during the review meeting (2M)

- A. Moderator
- B. Scribe
- C. Reviewers
- D. Author

5. What is the main purpose of Informal review (2M)

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

6. Purpose of test design technique is (1M)

- 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

7. _____ technique can be used to achieve input and output coverage (1M)

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

8. Use cases can be performed to test (2M)

- A. Performance testing
- B. Unit testing
- C. Business scenarios
- D. Static testing

9. _____ testing is performed at the developing organization's site (1M)

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

10. The purpose of exit criteria is (2M)

- 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

11. Which is not the project risks (2M)

- A. Supplier issues
- B. Organization factors
- C. Technical issues
- D. Error-prone software delivered

12. Poor software characteristics are (3M)

- A. Only Project risks
- B. Only Product risks
- C. Project risks and Product risks
- D. Project risks or Product risks

13. _____ and _____ are used within individual workbenches to produce the right output products. (2M)

- A. Tools and techniques
- B. Procedures and standards
- C. Processes and walkthroughs
- D. Reviews and update

14. The software engineer's role in tool selection is (3M)

- 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

15. A _____ is the step-by-step method followed to ensure that standards are met (2M)

- A. SDLC
- B. Project Plan
- C. Policy
- D. Procedure

16. Which of the following is the standard for the Software product quality (1M)

- A. ISO 1926
- B. ISO 829
- C. ISO 1012
- D. ISO 1028

17. Which is not the testing objectives (1M)

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

18. Bug life cycle (1M)

- A. Open, Assigned, Fixed, Closed
- B. Open, Fixed, Assigned, Closed
- C. Assigned, Open, Closed, Fixed
- D. Assigned, Open, Fixed, Closed

19. Which is not the software characteristics (1M)

- A. Reliability
- B. Usability
- C. Scalability
- D. Maintainability

20. Which is not a testing principle (2M)

- A. Early testing
- B. Defect clustering
- C. Pesticide paradox
- D. Exhaustive testing

21. 'X' has given a data on a person age, which should be between 1 to 99. Using BVA which is the appropriate one (3M)

- A. 0,1,2,99
- B. 1, 99, 100, 98
- C. 0, 1, 99, 100
- D. -1, 0, 1, 99

22. Which is not the fundamental test process (1M)

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

23. Which is not a Component testing (2M)

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

24. PDCA is known as (1M)

- A. Plan, Do, Check, Act
- B. Plan, Do, Correct, Act
- C. Plan, Debug, Check, Act
- D. Plan, Do, Check, Accept

25. Contract and regulation testing is a part of (2M)

- A. System testing
- B. Acceptance testing
- C. Integration testing
- D. Smoke testing

26. Which is not a black box testing technique (1M)

- A. Equivalence partition

- B. Decision tables
- C. Transaction diagrams
- D. Decision testing

27. Arc testing is known as (2M)

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

28. A software model that can't be used in functional testing (2M)

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

29. Find the mismatch (2M)

- A. Test data preparation tools – Manipulate Data bases
- B. Test design tools – Generate test inputs
- C. Requirement management tools – Enables individual tests to be traceable
- D. Configuration management tools – Check for consistence

30. The principle of Cyclomatic complexity, considering L as edges or links, N as nodes, P as independent paths (2M)

- A. $L-N +2P$
- B. $N-L +2P$
- C. $N-L +P$
- D. $N-L +P$

31. FPA is used to (2M)

- A. To measure the functional requirements of the project
- B. To measure the size of the functionality of an Information system
- C. To measure the functional testing effort
- D. To measure the functional flow

32. Which is not a test Oracle (2M)

- A. The existing system (For a bench mark)
- B. The code
- C. Individual's knowledge
- D. User manual

33. Find the correct flow of the phases of a formal review (3M)

- A. Planning, Review meeting, Rework, Kick off
- B. Planning, Individual preparation, Kick off, Rework
- C. Planning, Review meeting, Rework, Follow up
- D. Planning, Individual preparation, Follow up, Kick off

34. Stochastic testing using statistical information or operational profiles uses the following method (3M)

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

35. A project that is in the implementation phase is six weeks behind schedule. The delivery date for the product is four months away. The project is not allowed to slip the delivery date or compromise on the quality standards established for this product. Which of the following actions would bring this project back on schedule? (3M)

- A. Eliminate some of the requirements that have not yet been implemented.
- B. Add more engineers to the project to make up for lost work.
- C. Ask the current developers to work overtime until the lost work is recovered.
- D. Hire more software quality assurance personnel.

36. 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? (3M)

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

37. Maintenance releases and technical assistance centers are examples of which of the following costs of quality? (3M)

- A. External failure
- B. Internal failure
- C. Appraisal
- D. Prevention

Answers:

1 B 20 D
2 C 21 C
3 A 22 D
4 B 23 D
5 A 24 A
6 C 25 B
7 B 26 D
8 C 27 A
9 C 28 C
10 D 29 D
11 D 30 A
12 B 31 B
13 B 32 B
14 A 33 C
15 D 34 C
16 A 35 A
17 D 36 B
18 A 37 A
19 C

ISTQB Foundation Sample Question Paper No. 8

1. COTS is known as

- A. Commercial off the shelf software
- B. Compliance of the software
- C. Change control of the software
- D. Capable off the shelf software

2. From the below given choices, which one is the ‘Confidence testing’

- A. Sanity testing
- B. System testing
- C. Smoke testing
- D. Regression testing

3. ‘Defect Density’ calculated in terms of

- A. The number of defects identified in a component or system divided by the size of the component or the system
- B. The number of defects found by a test phase divided by the number found by that test phase and any other means after wards
- C. The number of defects identified in the component or system divided by the number of defects found by a test phase
- D. The number of defects found by a test phase divided by the number found by the size of the system

4. ‘Be bugging’ is known as

- A. Preventing the defects by inspection
- B. Fixing the defects by debugging
- C. Adding known defects by seeding
- D. A process of fixing the defects by tester

5. An expert based test estimation is also known as

- A. Narrow band Delphi
- B. Wide band Delphi
- C. Bespoke Delphi
- D. Robust Delphi

6. When testing a grade calculation system, a tester determines that all scores from 90 to 100 will yield a grade of A, but scores below 90 will not. This analysis is known as:

- A. Equivalence partitioning
- B. Boundary value analysis
- C. Decision table
- D. Hybrid analysis

7. All of the following might be done during unit testing except

- A. Desk check
- B. Manual support testing
- C. Walk-through
- D. Compiler based testing

8. 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

9. Which of the following characteristics is primarily associated with software re-usability?

- A. The extent to which the software can be used in other applications
- B. The extent to which the software can be used by many different users
- C. The capability of the software to be moved to a different platform
- D. The capability of one system to be coupled with another system

10. Which of the following software change management activities is most vital to assessing the impact of proposed software modifications?

- A. Baseline identification
- B. Configuration auditing
- C. Change control
- D. Version control

11. Which of the following statements is true about a software verification and validation program?

- I. It strives to ensure that quality is built into software.
- II. It provides management with insights into the state of a software project.
- III. It ensures that alpha, beta, and system tests are performed.
- IV. It is executed in parallel with software development activities.

- A. I, II&III
- B. II, III&IV
- C. I, II&IV
- D. I, III&IV

12. Which of the following is a requirement of an effective software environment?

- I. Ease of use
- II. Capacity for incremental implementation
- III. Capability of evolving with the needs of a project
- IV. Inclusion of advanced tools

A.I, II &III B.I, II &IV C.II, III&IV D.I, III&IV

13. A test manager wants to use the resources available for the automated testing of a web application. The best choice is

- A. Test automater, web specialist, DBA, test lead
- B. Tester, test automater, web specialist, DBA
- C. Tester, test lead, test automater, DBA
- D. Tester, web specialist, test lead, test automater

14. A project manager has been transferred to a major software development project that is in the implementation phase. The highest priority for this project manager should be to

- A. Establish a relationship with the customer
- B. Learn the project objectives and the existing project plan.
- C. Modify the project' s organizational structure to meet the manager' s management style.
- D. Ensure that the project proceeds at its current pace

15. Change X requires a higher level of authority than Change Y in which of the following pairs?

Change X Change Y

- A. Code in development Code in production
- B. Specifications during requirements analysis Specifications during systems test
- C. Documents requested by the technical development group Documents requested by customers
- D. A product distributed to several sites A product with a single user

16. Which of the following functions is typically supported by a software quality information system?

- I. Record keeping
- II. System design
- III. Evaluation scheduling
- IV. Error reporting

A.I, II&III B.II, III &IV C.I, III &IV D.I, II & IV

17. During the testing of a module tester 'X' finds a bug and assigned it to developer. But developer rejects the same, saying that it's not a bug. What 'X' should do?

- A. Report the issue to the test manager and try to settle with the developer.
- B. Retest the module and confirm the bug
- C. Assign the same bug to another developer
- D. Send to the detailed information of the bug encountered and check the reproducibility

18. The primary goal of comparing a user manual with the actual behavior of the running program during system testing is to

- A. Find bugs in the program
- B. Check the technical accuracy of the document
- C. Ensure the ease of use of the document
- D. Ensure that the program is the latest version

19. A type of integration testing in which software elements, hardware elements, or both are combined all at once into a component or an overall system, rather than in stages.

- A. System Testing
- B. Big-Bang Testing
- C. Integration Testing
- D. Unit Testing

20. In practice, which Life Cycle model may have more, fewer or different levels of development and testing, depending on the project and the software product. For example, there may be component integration testing after component testing, and system integration testing after system testing.

- A. Water Fall Model
- B. V-Model
- C. Spiral Model
- D. RAD Model

21. Which technique can be used to achieve input and output coverage? It can be applied to human input, input via interfaces to a system, or interface parameters in integration testing.

- A. Error Guessing
- B. Boundary Value Analysis
- C. Decision Table testing
- D. Equivalence partitioning

22. There is one application, which runs on a single terminal. There is another application that works on multiple terminals. What are the test techniques you will use on the second application that you would not do on the first application?

- A. Integrity, Response time
- B. Concurrency test, Scalability
- C. Update & Rollback, Response time

D. Concurrency test, Integrity

23. You are the test manager and you are about to start the system testing. The developer team says that due to change in requirements they will be able to deliver the system to you for testing 5 working days after the due date. You can not change the resources(work hours, test tools, etc.) What steps you will take to be able to finish the testing in time. (

- A. Tell to the development team to deliver the system in time so that testing activity will be finished in time.
- B. Extend the testing plan, so that you can accommodate the slip going to occur
- C. Rank the functionality as per risk and concentrate more on critical functionality testing
- D. Add more resources so that the slippage should be avoided

24. Item transmittal report is also known as

- A. Incident report
- B. Release note
- C. Review report
- D. Audit report

25. Testing of software used to convert data from existing systems for use in replacement systems

- A. Data driven testing
- B. Migration testing
- C. Configuration testing
- D. Back to back testing

26. Big bang approach is related to

- A. Regression testing
- B. Inter system testing
- C. Re-testing
- D. Integration testing

27. Cause effect graphing is related to the standard

- A. BS7799
- B. BS 7925/2
- C. ISO/IEC 926/1
- D. ISO/IEC 2382/1

28. “The tracing of requirements for a test level through the layers of a test documentation” done by

- A. Horizontal traceability
- B. Depth traceability
- C. Vertical traceability
- D. Horizontal & Vertical traceabilities

29. A test harness is a

- A. A high level document describing the principles, approach and major objectives of the organization regarding testing
- B. A distance set of test activities collected into a manageable phase of a project
- C. A test environment comprised of stubs and drives needed to conduct a test
- D. A set of several test cases for a component or system under test

30. You are a tester for testing a large system. The system data model is very large with many attributes and there are a lot of inter dependencies with in the fields. What steps would you use to test the system and also what are the efforts of the test you have taken on the test plan

- A. Improve super vision, More reviews of artifacts or program means stage containment of the defects.
- B. Extend the test plan so that you can test all the inter dependencies
- C. Divide the large system in to small modules and test the functionality
- D. Test the interdependencies first, after that check the system as a whole

31. Change request should be submitted through development or program management. A change request must be written and should include the following criteria.

- I. Definition of the change
- II. Documentation to be updated
- III. Name of the tester or developer
- IV. Dependencies of the change request.

- A. I, III and IV B. I, II and III C. II, III and IV D. I, II and IV

32. ‘Entry criteria’ should address questions such as

- I. Are the necessary documentation, design and requirements information available that will allow testers to operate the system and judge correct behavior.
- II. Is the test environment-lab, hardware, software and system administration support ready?
- III. Those conditions and situations that must prevail in the testing process to allow testing to continue effectively and efficiently.
- IV. Are the supporting utilities, accessories and prerequisites available in forms that testers can use

- A. I, II and IV
- B. I, II and III
- C. I, II, III and IV
- D. II, III and IV.

33. “This life cycle model is basically driven by schedule and budget risks” This statement is best suited for

- A. Water fall model
- B. Spiral model
- C. Incremental model
- D. V-Model

34. The bug tracking system will need to capture these phases for each bug.

- I. Phase injected
- II. Phase detected
- III. Phase fixed
- IV. Phase removed

- A. I, II and III
- B. I, II and IV
- C. II, III and IV
- D. I, III and IV

35. One of the more daunting challenges of managing a test project is that so many dependencies converge at test execution. One missing configuration file or hard ware device can render all your test results meaning less. You can end up with an entire platoon of testers sitting around for days.

Who is responsible for this incident?

- A. Test managers faults only
- B. Test lead faults only
- C. Test manager and project manager faults
- D. Testers faults only

36. System test can begin when?

- I. The test team completes a three day smoke test and reports on the results to the system test phase entry meeting
 - II. The development team provides software to the test team 3 business days prior to starting of the system testing
 - III. All components are under formal, automated configuration and release management control
- A. I and II only
 - B. II and III only
 - C. I and III only

D. I, II and III

37. Test charters are used in _____ testing

- A. Exploratory testing B. Usability testing
- C. Component testing D. Maintainability testing

Answers:

- 1 (A) 20 (B)
- 2 (C) 21 (D)
- 3 (A) 22 (C)
- 4 (C) 23 (C)
- 5 (B) 24 (B)
- 6 (A) 25 (B)
- 7 (B) 26 (D)
- 8 (A) 27 (B)
- 9 (A) 28 (A)
- 10 (C) 29 (C)
- 11 (C) 30 (A)
- 12 (A) 31 (D)
- 13 (B) 32 (A)
- 14 (B) 33 (D)
- 15 (D) 34 (B)
- 16 (C) 35 (A)
- 17 (D) 36 (D)
- 18 (B) 37 (A)
- 19 (B)

ISTQB Foundation Sample Question Paper No. 9

1. Deliverables of test design phase include all the following except (Testing artifacts)

- a) Test data
- b) Test data plan
- c) Test summary report
- d) Test procedure plan

2. Which of the following is not decided in the test-planning phase? (Testing artifacts)

- a) Schedules and deliverables
- b) Hardware and software
- c) Entry and exit criteria
- d) Types of test cases

3. Typical defects that are easier to find in reviews than in dynamic testing are:

- A. deviations from standards,
- B.requirement defects,
- C.design defects,
- D.insufficient maintainability and incorrect interface specifications.
- E.All of the above.

4. Load Testing Tools (Per. Testing)

- a) reduces the time spent by the testers
- b) reduces the resources spent (hardware)
- c) mostly used in web testing
- d) all of the above

5. Reviews, static analysis and dynamic testing have the same objective –

A.identifying defects.

- B. fixing defects.
- C. 1 and 2
- D. None

6. Defect arrival rate curve:

- A. Shows the number of newly discovered defects per unit time
- B. Shows the number of open defects per unit time.
- C. Shows the cumulative total number of defects found up to this time.
- D. Any of these, depending on the company.

7. What are the 2 major components taken into consideration with risk analysis? (Test Mgmt)

- a) The probability the negative event will occur
- b) The potential loss or impact associated with the event
- c) Both a and b

d) Neither a nor b

8. We can achieve complete statement coverage but still miss bugs because:

- A. The failure occurs only if you reach a statement taking the TRUE branch of an IF statement, and you got to the statement with a test that passed through the FALSE branch.
- B. The failure depends on the program's inability to handle specific data values, rather than on the program's flow of control.
- C. Both A and B
- D. We are not required to test code that customers are unlikely to execute.

9. Who is responsible for conducting test readiness review? (Performing Test)

- a. Test manager
- b. Test engineer
- c. both A & B
- d. Project Manager

10. What if the project isn't big enough to justify extensive testing? (Test Mgmt)

- a) Use risk based analysis to find out which areas need to be tested
- b) Use automation tool for testing
- c) a and b
- d) None of the above

11. What are the key features to be concentrated upon when doing a testing for world wide web sites (Test Execution)

- a) Interaction between html pages
- b) Performance on the client side
- c) Security aspects
- d) All of the above

12. What can be done if requirements are changing continuously? (Test Mgmt)

- a) Work with the project's stakeholders early on to understand how requirements might change so that alternate test plans and strategies can be worked out in advance, if possible.
- b) Negotiate to allow only easily-implemented new requirements into the project, while moving more difficult new requirements into future versions of the application
- c) Both a and b
- d) None of the above

13. The selection of test cases for regression testing (Testing artifacts)

- 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

14. Measurement dysfunction is a problem because:

- A. Even though the numbers you look at appear better, to achieve these numbers, people are doing other aspects of their work much less well.
- B. We don't know how to measure a variable (our measurement is dysfunctional) and so we don't know how to interpret the result.
- C. You are measuring the wrong thing and thus reaching the wrong conclusions.
- D. All of the above.

15. What do you mean by “Having to say NO” (test planning process)

- a. No, the problem is not with testers
- b. No, the software is not ready for production
- c. Both a & b
- d. none of the above

16. According to the lecture, there are several risks of managing your project's schedule

with a statistical reliability model. These include (choose one or more of the following):

- A. Testers spend more energy early in the product trying to find bugs than preparing to do the rest of the project's work more efficiently
- B. Managers might not realize that the testing effort is ineffective, late in the project, because they expect a low rate of bug finding, so the low rate achieved doesn't alarm them.
- C. It can increase the end-of-project pressure on testers to not find bugs, or to not report bugs.
- D. All of the above

17. Operations testing is (Performing Test)

- a. compliance testing
- b. disaster testing
- c. verifying compliance to rules
- d. functional testing
- e. ease of operations

18. Tools like change Man, Clear case are used as (test planning process)

- a. functional automation tools
- b. performance testing tools
- c. configuration management tools
- d. none of the above.

19. Important consequences of the impossibility of complete testing are (Choose one or more answers):

- 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.

20. Which is not in sequence in 11 Step Software Testing process (Tester's Role SDLC)

- a Assess development plan and status
- b Develop the test plan
- c Test software design
- d Test software requirement

21. In the MASPAR case study: A. Security failures were the result of untested parts of code.

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

22. Complete statement and branch coverage means:

- A. That you have tested every statement in the program.
- B. That you have tested every statement and every branch in the program.
- C. That you have tested every IF statement in the program.
- D. That you have tested every combination of values of IF statements in the program

23. What if the project isn't big enough to justify extensive testing? (Test Mgmt)

- a) Use risk based analysis to find out which areas need to be tested
- b) Use automation tool for testing
- c) a and b
- d) None of the above

24. Security falls under (Performing Test)

- a. compliance testing
- b. disaster testing
- c. verifying compliance to rules
- d. functional testing
- e. ease of operations

25. Which is the best definition of complete testing:

- A. You have discovered every bug in the program.
- B. You have tested every statement, branch, and combination of branches in the program.

- C. You have completed every test in the test plan.
- D. You have reached the scheduled ship date.

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

- a) Desk checking
- b) Debugging a program
- c) A mutation error
- d) Performance testing
- e) Introducing mutations

Answers:

- 1 - C
- 2 - D
- 3 - E
- 4 - D
- 5 - A
- 6 - A
- 7 - C
- 8 - C
- 9 - A
- 10 - A
- 11 - D
- 12 - C
- 13 - D
- 14 - A
- 15 - B
- 16 - D
- 17 - E
- 18 - C
- 19 - D
- 20 - C
- 21 - C
- 22 - B
- 23 - A
- 24 - A
- 25 - D
- 26 - E

ISTQB Foundation Sample Question Paper No. 10

1. 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

2. Test Implementation and execution has which of the following major tasks?

- i. Developing and prioritizing test cases, creating test data, writing test procedures and optionally preparing the test harnesses and writing automated test scripts.
 - ii. Creating the test suite from the test cases for efficient test execution.
 - iii. Verifying that the test environment has been set up correctly.
 - iv. Determining the exit criteria.
- a) i,ii,iii are true and iv is false
 - b) i,iv are true and ii is false
 - c) i,ii are true and iii,iv are false
 - d) ii,iii,iv are true and i is false

3. A Test Plan Outline contains which of the following :-

- i. Test Items
 - ii. Test Scripts
 - iii. Test Deliverables
 - iv. Responsibilities
- a) i,ii,iii are true and iv is false
 - b) i,iii,iv are true and ii is false
 - c) ii,iii are true and i and iv are false
 - d) i,ii are false and iii , iv are true

**4. One of the fields on a form contains a text box which accepts numeric values in the range of
18 to 25. Identify the invalid Equivalence class**

- a) 17
- b) 19
- c) 24
- d) 21

5. In a Examination a candidate has to score minimum of 24 marks inorder to clear the exam.

The maximum that he can score is 40 marks. Identify the Valid Equivalence values if the student clears the exam.

- a) 22,23,26
- b) 21,39,40

- c) 29,30,31
- d) 0,15,22

6. Which of the following statements regarding static testing is false:

- a) static testing requires the running of tests through the code
- b) static testing includes desk checking
- c) static testing includes techniques such as reviews and inspections
- d) static testing can give measurements such as cyclomatic complexity

7. Verification involves which of the following :-

- i. Helps to check that we have built product right.
 - ii. Helps to check that we have built the right product.
 - iii. Helps in developing the product
 - iv. Monitoring tool wastage and obsoleteness.
- a) Options i,ii,iii,iv are true.
 - b) i is true and ii,iii,iv are false
 - c) i,ii,iii are true and iv is false
 - d) ii is true and i,iii,iv are false.

8. 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

9. Link Testing is also called as :

- a) Component Integration testing
- b) Component System Testing
- c) Component Sub System Testing
- d) Maintenance testing

10. What is the expected result for each of the following test cases?

	Rule 1	Rule 2	Rule 3	Rule 4
Conditions				
Indian resident?	False	True	True	True
Age between 18 – 55?	Don't care	False	True	True
Married?	Don't care	Don't care	False	True
Actions				
Issue Memebership?	False	False	True	True
Offer 10% discount?	False	False	True	False

A.TC1: Anand is a 32 year old married, residing in Kolkatta.

B.TC3: Attapattu is a 65 year old married person, residing in Colombo.

- a. A – Issue membership, 10% discount, B – Issue membership, offer no discount. B
- b. A – Don't Issue membership, B – Don't offer discount. C
- c. A – Issue membership, no discount, B – Don't Issue membership.
- d. Issue membership, no discount, B- Issue membership with 10% discount.

11. Methodologies adopted while performing Maintenance Testing:-

- a) Breadth Test and Depth Test
- b) Retesting
- c) Confirmation Testing
- d) Sanity Testing

12. 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

13. 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

14. Consider the following state transition diagram of a two-speed hair dryer, which is

operated by pressing its one button. The first press of the button turns it on to Speed 1, second press to Speed 2 and the third press turns it off. Which of the following series of state transitions below will provide 0-switch coverage?

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

15. White Box Techniques are also called as :-

- a) Structural Testing

- b) Design Based Testing
- c) Error Guessing Technique
- d) Experience Based Technique

16. What is an equivalence partition (also known as an equivalence class)?

- a) A set of test cases for testing classes of objects
- b) An input or output range of values such that only one value in the range becomes a test case
- c) An input or output range of values such that each value in the range becomes a test case
- d) An input or output range of values such that every tenth value in the range becomes a test case.

17. The Test Cases Derived from use cases

- a) Are most useful in uncovering defects in the process flows during real world use of the system
- b) Are most useful in uncovering defects in the process flows during the testing use of the system
- c) Are most useful in covering the defects in the process flows during real world use of the system
- d) Are most useful in covering the defects at the Integration Level

18. Exhaustive Testing is

- a) Is impractical but possible
- b) Is practically possible
- c) Is impractical and impossible
- d) Is always possible

19. Which of the following is not a part of the Test Implementation and Execution Phase

- a) Creating test suites from the test cases
- b) Executing test cases either manually or by using test execution tools
- c) Comparing actual results
- d) Designing the Tests

20. Which of the following techniques is NOT a White box technique?

- a) Statement Testing and coverage
- b) Decision Testing and coverage
- c) Condition Coverage
- d) Boundary value analysis

21. A Project risk includes which of the following :

- a) Organizational Factors
- b) Poor Software characteristics
- c) Error Prone software delivered.
- d) Software that does not perform its intended functions

22. In a risk-based approach the risks identified may be used to :

- i. Determine the test technique to be employed
 - ii. Determine the extent of testing to be carried out
 - iii. Prioritize testing in an attempt to find critical defects as early as possible.
 - iv. Determine the cost of the project
- a) ii is True; i, iii, iv & v are False
 - b) i,ii,iii are true and iv is false
 - c) ii & iii are True; i, iv are False
 - d) ii, iii & iv are True; i is false

23. 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

24. The Planning phase of a formal review includes the following :-

- a) Explaining the objectives
- b) Selecting the personnel, allocating roles.
- c) Follow up
- d) Individual Meeting preparations

25. A Person who documents all the issues, problems and open points that were identified during a formal review.

- a) Moderator.
- b) Scribe
- c) Author
- d) Manager

26. Who are the persons involved in a Formal Review :-

- i. Manager
 - ii. Moderator
 - iii. Scribe / Recorder
 - iv. Assistant Manager
- a) i,ii,iii,iv are true
 - b) i,ii,iii are true and iv is false.

- c) ii,iii,iv are true and i is false.
- d) i,iv are true and ii, iii are false.

27. Which of the following is a Key Characteristics of Walk Through

- a) Scenario , Dry Run , Peer Group
- b) Pre Meeting Preparations
- c) Formal Follow Up Process
- d) Includes Metrics

28. 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

29. Incidents would not be raised against:

- a) requirements
- b) documentation
- c) test cases
- d) improvements suggested by users

30. A Type of functional Testing, which investigates the functions relating to detection of threats, such as virus from malicious outsiders.

- a) Security Testing
- b) Recovery Testing
- c) Performance Testing
- d) Functionality Testing

31. 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.

32. 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

33. 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

34. Static analysis is best described as:

- a) The analysis of batch programs.
- b) The reviewing of test plans.
- c) The analysis of program code.
- d) The use of black box testing.

35. One of the fields on a form contains a text box which accepts alpha numeric values. Identify the Valid Equivalence class

- a) BOOK
- b) Book
- c) Boo01k
- d) book

36. 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

37. 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

38. Which of the following items would not come under Configuration Management?

- a) operating systems
- b) test documentation
- c) live data
- d) user requirement document

39. Handover 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

40. 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:

- 1 b 11 a 21 a 31 b
- 2 a 12 b 22 b 32 a
- 3 b 13 c 23 b 33 b
- 4 a 14 c 24 b 34 c
- 5 c 15 a 25 b 35 c
- 6 a 16 b 26 b 36 a
- 7 b 17 a 27 a 37 b
- 8 a 18 a 28 c 38 c
- 9 a 19 d 29 d 39 c
- 10 c 20 d 30 a 40 c

ISTQB Foundation Sample Question Paper No. 11

1. 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

2. Why is testing necessary?

- a. Because testing is good method to make there are not defects in the software
- b. Because verification and validation are not enough to get to know the quality of the software
- c. Because testing measures the quality of the software system and helps to increase the quality
- d. Because testing finds more defects than reviews and inspections.

3. Integration testing has following characteristics

- I. It can be done in incremental manner
 - II. It is always done after system testing
 - III. It includes functional tests
 - IV. It includes non-functional tests
- a. I, II and III are correct
 - b. I is correct
 - c. I, III and IV are correct
 - d. I, II and IV are correct

4. A number of critical bugs are fixed in software. All the bugs are in one module, related to

reports. The test manager decides to do regression testing only on the reports module.

- a. The test manager should do only automated regression testing.
- b. The test manager is justified in her decision because no bug has been fixed in other modules
- c. The test manager should only do confirmation testing. There is no need to do regression testing
- d. Regression testing should be done on other modules as well because fixing one module may affect other modules

5. 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

6. 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

7. For the code fragment given below, which answer correctly represents minimum tests

required for statement and branch coverage respectively?

Discount rate=1;

Fare = 1000;

If ((person == "senior citizen") and ("travel month = January"))

Bonuspoints = 100+Bonuspoints

If (class=="first")

discountRate = .5;

Fare = fare * discountRate;

- a. Statement Coverage = 1, Branch Coverage = 2
- b. Statement Coverage = 2, Branch Coverage = 2
- c. Statement Coverage = 1, Branch Coverage = 3
- d. Statement Coverage = 2, Branch Coverage = 4

8. 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

9. Acme Inc. decides to use functional test execution automation tool for testing GUI of their product. The GUI is expected to change frequently. Acme Inc. has put some of the manual

testers through a 3 day training program on how to use the tool. Which of the following is likely to be true?

- a. Automation is likely to fail because of frequent changes and lack of experience
- b. Automation is likely to fail because of GUI automation is not the right way to automate
- c. Automation is likely to succeed because automation is very useful for frequent changes

d. Automation is likely to succeed because the team has been trained on tool.

10. 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.

11. Which of the following statements contains a valid goal for a functional test set?

- a. A goal is that no more failures will result from the remaining defects
- b. A goal is to find as many failures as possible so that the cause of the failures can be identified and fixed
- c. A goal is to eliminate as much as possible the causes of defects
- d. A goal is to fulfil all requirements for testing that are defined in the project plan.

12. In system testing...

- a. ... Both functional and non-functional requirements are to be tested
- b. ... Only functional requirements are tested; non-functional requirements are validated in a review
- c. ... Only non-functional requirements are tested; functional requirements are validated in a review
- d. ... Only requirements which are listed in the specification document are to be tested

13. Which of the following activities differentiate a walkthrough from a formal review?

- a. A walkthrough does not follow a defined process
- b. For a walkthrough individual preparation by the reviewers is optional
- c. A walkthrough requires meeting
- d. A walkthrough finds the causes of failures, while formal review finds the failures

14. Why does the boundary value analysis provide good test cases?

- a. Because it is an industry standard
- b. Because errors are frequently made during programming of the different cases near the ‘edges’ of the range of values
- c. Because only equivalence classes that are equal from a functional point of view are considered in the test cases
- d. Because the test object is tested under maximal load up to its performance limits

15. 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
16. The following list contains risks that have been identified for a software product to be

developed. Which of these risks is an example of a product risk?

- a. Not enough qualified testers to complete the planned tests
- b. Software delivery is behind schedule
- c. Threat to a patient's life
- d. 3rd party supplier does not supply as stipulated

17. 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.
- 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

18. Which of the following statements is correct?

- a. Static analysis tools produce statistics during program execution
- b. Configuration management systems allow us to provide accurate defect statistics of different configurations
- c. Stress testing tools examine the behaviour of the test object at or beyond full load
- d. Performance measurement tools can be used in all phases of software life-cycle

19. What makes an inspection different from other review types?

- a. It is led by a trained leader, uses formal entry and exit criteria and checklists
- b. It is led by the author of the document to be inspected
- c. It can only be used for reviewing design and code
- d. It is led by the author, uses checklists, and collects data for improvement

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

21. Which of the following is a valid collection of equivalence classes for the following

problem: Paying with credit cards shall be possible with Visa, Master and Amex cards only.

- a. Visa, Master, Amex;
- b. Visa, Master, Amex, Diners, Keycards, and other option
- c. Visa, Master, Amex, any other card, no card
- d. No card, other cards, any of Visa – Master – Amex

22. Which of the following techniques are black box techniques?

- a. State transition testing, code testing, agile testing
- b. Equivalence partitioning, state transition testing, decision table testing
- c. System testing, acceptance testing, equivalence partitioning
- d. System integration testing, system testing, decision table testing

23. A defect management system shall keep track of the status of every defect registered and

enforce the rules about changing these states. If your task is to test the status tracking, which

method would be best?

- a. Logic-based testing
- b. Use-case-based testing
- c. State transition testing
- d. Systematic testing according to the V-model

24. 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%

25. This part of a program is given:-

WHILE (condition A) Do B

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

26. Why can be tester dependent on configuration management?

- a. Because configuration management assures that we know the exact version of the testware and the test object
- b. Because test execution is not allowed to proceed without the consent of the change control board
- c. Because changes in the test object are always subject to configuration management

d. Because configuration management assures the right configuration of the test tools

27. 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

28. Why is successful test execution automation difficult?

- a. Because the tools for automated testing require too much effort for learning
- b. Because the maintenance of the test system is difficult
- c. Because the test robot tools are restricted in their ability to recognize outputs
- d. Because the test robot needs to be supported by a test management.

29. 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

30. 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

31. Which of the following project inputs influence testing?

- (I) contractual requirements
 - (II) legal requirements
 - (III) Industry standards
 - (IV) application risk
 - (V) project size
- a. (I) through (III) are correct
 - b. All alternatives are correct
 - c. (II) and (V) are correct

d. (I), (III) and (V) are correct

32. If a program is tested and 100% branch coverage is achieved, which of the following

coverage criteria is then guaranteed to be achieved?

- a. 100% Equivalence class coverage
- b. 100% Condition coverage and 100% Statement coverage
- c. 100% Statement coverage
- d. 100% Multiple condition coverage

33. 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

34. 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

35. Which of the following items need not to be given in an incident report?

- a. The version number of the test object
- b. Test data and used environment
- c. Identification of the test case that failed
- d. The location and instructions on how to correct the fault

36. V-Model is:

- a. A software development model that illustrates how testing activities integrate with software development phases
- b. A software life-cycle model that is not relevant for testing
- c. The official software development and testing life-cycle model of ISTQB
- d. A testing life cycle model including unit, integration, system and acceptance phases

37. Why is incremental integration preferred over “big bang” integration?

- a. Because incremental integration has better early defects screening and isolation ability
- b. Because “big bang” integration is suitable only for real time applications
- c. Incremental integration is preferred over “Big Bang Integration” only for “bottom up” development model
- d. Because incremental integration can compensate for weak and inadequate component testing

38. Maintenance testing is:

- a. Testing management
- b. Synonym of testing the quality of service
- c. Triggered by modifications, migration or retirement of existing software
- d. Testing the level of maintenance by the vendor

39. A test engineer is testing a Video Player (VCR), and logs the following report:

Title: Fast Forward stops after 2 minutes. It happens every time

Expected result: Fast forward continues till the end of the tape

Severity: High

Priority: Urgent

What important information did the engineer leave out?

- a. Identification (Software and hardware) of the VCR
- b. Actual result
- c. History of the report
- d. Ideas for the test case improvement

40. Why is it necessary to define a Test Strategy?

- a. As there are many different ways to test software, thought must be given to decide what will be the most effective way to test the project on hand.
- b. Starting testing without prior planning leads to chaotic and inefficient test project
- c. A strategy is needed to inform the project management how the test team will schedule the test-cycles
- d. Software failure may cause loss of money, time, business reputation, and in extreme cases injury and death. It is therefore critical to have a proper test strategy in place.

Answers:

- 1 - B
- 2 - C
- 3 - C
- 4 - D
- 5 - B
- 6 - B
- 7 - A
- 8 - A
- 9 - A
- 10 - C
- 11 - B
- 12 - A
- 13 - B
- 14 - B
- 15 - C
- 16 - C

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17 - D
18 - C
19 - A
20 - A
21 - D
22 - B
23 - C
24 - B
25 - A
26 - A
27 - A
28 - B
29 - B
30 - A
31 - B
32 - B
33 - C
34 - A
35 - D
36 - A
37 - A
38 - C
39 - B
40 - D

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ISTQB Foundation Sample Question Paper No. 12

1. 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

2. Regression testing should be performed:

- v)every week
 - w)after the software has changed
 - x)as often as possible
 - y)when the environment has changed
 - z)when the project manager says
- a)v & w are true, x, y & z are false
 - b>w, x & y are true, v & z are false
 - c>w & y are true, v, x & z are false
 - d>w is true, v, x, y & z are false

3. IEEE 829 test plan documentation standard contains all of the following except

- a)test items
- b)test deliverables
- c)test tasks
- d)test specifications

4. When should testing be stopped?

- a)when all the planned tests have been run
- b)when time has run out
- c)when all faults have been fixed correctly
- d)it depends on the risks for the system being tested

5. Order numbers on a stock control system can range between 10000 and 99999 inclusive.

Which of the following inputs might be a result of designing tests for only valid equivalence classes and valid boundaries?

- a)1000, 50000, 99999
- b)9999, 50000, 100000
- c)10000, 50000, 99999
- d)10000, 99999, 100000

6. Consider the following statements about early test design:

- i.early test design can prevent fault multiplication

- ii.faults found during early test design are more expensive to fix
 - iii.early test design can find faults
 - iv.early test design can cause changes to the requirements
 - v.early test design normally takes more effort
- a)i, iii & iv are true; ii & v are false
 - b)iii & iv are true; i, ii & v are false
 - c)i, iii, iv & v are true; ii is false
 - d)i & ii are true; iii, iv & v are false

7. Non-functional system testing includes:

- a)testing to see where the system does not function correctly
- b)testing quality attributes of the system including performance and usability
- c)testing a system function using only the software required for that function
- d)testing for functions that should not exist

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

- a)auditing conformance to ISO 9000
- b)status accounting of configuration items
- c)identification of test versions
- d)controlled library access

9. Which of the following is the main purpose of the integration strategy for integration testing in the small?

- a)to ensure that all of the small modules are tested adequately
- b)to ensure that the system interfaces to other systems and networks
- c)to specify which modules to combine when, and how many at once
- d)to specify how the software should be divided into modules

10. 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

11. Consider the following statements:

- i.an incident may be closed without being fixed.
 - ii.incidents may not be raised against documentation.
 - iii.the final stage of incident tracking is fixing.
 - iv.the incident record does not include information on test environments.
- a)ii is true, i, iii and iv are false
 - b)i is true, ii, iii and iv are false
 - c)i and iv are true, ii and iii are false
 - d)i and ii are true, iii and iv are false

12. Given the following code, which statement 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, 2 for branch coverage

13. Consider the following statements:

- i.100% statement coverage guarantees 100% branch coverage.
 - ii.100% branch coverage guarantees 100% statement coverage.
 - iii.100% branch coverage guarantees 100% decision coverage.
 - iv.100% decision coverage guarantees 100% branch coverage.
 - v.100% statement coverage guarantees 100% decision coverage.
- a)ii is True; i, iii, iv & v are False
 - b)i & v are True; ii, iii & iv are False
 - c)ii & iii are True; i, iv & v are False
 - d)ii, iii & iv are True; i & v are False

14. Functional system testing is:

- a)testing that the system functions with other systems
- b)testing that the components that comprise the system function together
- c)testing the end to end functionality of the system as a whole
- d)testing the system performs functions within specified response times

15. Incidents would not be raised against:

- a)requirements
- b)documentation
- c)test cases
- d)improvements suggested by users

16. Which of the following items would not come under Configuration Management?

- a)operating systems
- b)test documentation
- c)live data
- d>user requirement documents

17. Maintenance testing is:

- a) updating tests when the software has changed
- b) testing a released system that has been changed
- c) testing by users to ensure that the system meets a business need
- d) testing to maintain business advantage

18. 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

19. Which of the following techniques is NOT a black box technique?

- a) state transition testing
- b) LCSAJ
- c) syntax testing
- d) boundary value analysis

20. Beta testing is:

- a) performed by customers at their own site
- b) performed by customers at the software developer's site
- c) performed by an Independent Test Team
- d) performed as early as possible in the lifecycle

21. Given the following types of tool, which tools would typically be used by developers, and which by an independent system test team?

- i.static analysis
- ii.performance testing
- iii.test management
- iv.dynamic analysis

- a) developers would typically use i and iv; test team ii and iii
- b) developers would typically use i and iii; test team ii and iv
- c) developers would typically use ii and iv; test team i and iii
- d) developers would typically use i, iii and iv; test team ii

22. The main focus of acceptance testing is:

- a) finding faults in the system
- b) ensuring that the system is acceptable to all users
- c) testing the system with other systems
- d) testing from a business perspective

23. Which of the following statements about component testing is FALSE?

- a) black box test design techniques all have an associated test measurement technique
- b) white box test design techniques all have an associated test measurement technique
- c) cyclomatic complexity is not a test measurement technique

d)black box test measurement techniques all have an associated test design technique

24. Which of the following statements is NOT true?

- a)inspection is the most formal review process
- b)inspections should be led by a trained leader
- c)managers can perform inspections on management documents
- d)inspection is appropriate even when there are no written documents

25. A typical commercial test execution tool would be able to perform all of the following,

EXCEPT:

- a)calculating expected outputs
- b)comparison of expected outcomes with actual outcomes
- c)recording test inputs
- d)reading test values from a data file

26. The difference between re-testing and regression testing is:

- a)re-testing ensures the original fault has been removed; regression testing looks for unexpected side-effects
- b)re-testing looks for unexpected side-effects; regression testing ensures the original fault has been removed
- c)re-testing is done after faults are fixed; regression testing is done earlier
- d)re-testing is done by developers; regression testing is done by independent testers

27. Expected results are:

- a)only important in system testing
- b)only used in component testing
- c)most useful when specified in advance
- d)derived from the code

28. What type of review requires formal entry and exit criteria, including metrics:

- a)walkthrough
- b)inspection
- c>management review
- d>post project review

29. Which of the following uses Impact Analysis most?

- a)component testing
- b>non-functional system testing
- c>user acceptance testing
- d>maintenance testing

30. What is NOT included in typical costs for an inspection process?

- a)setting up forms and databases
- b>analysing metrics and improving processes

- c)writing the documents to be inspected
- d)time spent on the document outside the meeting

31. Which of the following is NOT a reasonable test objective:

- a)to find faults in the software
- b)to prove that the software has no faults
- c)to give confidence in the software
- d)to find performance problems

32. Which expression best matches the following characteristics of the review processes:

- 1.led by the author
 - 2.undocumented
 - 3.no management participation
 - 4.led by a moderator or leader
 - 5.uses entry and exit criteria
 - s)inspection
 - t)peer review
 - u)informal review
 - v)walkthrough
- a)s = 4 and 5, t = 3, u = 2, v = 1
 - b)s = 4, t = 3, u = 2 and 5, v = 1
 - c)s = 1 and 5, t = 3, u = 2, v = 4
 - d)s = 4 and 5, t = 1, u= 2, v = 3

33. Which of the following is NOT part of system testing?

- a)business process-based testing
- b)performance, load and stress testing
- c)usability testing
- d)top-down integration testing

34. Which statement about expected outcomes is FALSE?

- a)expected outcomes are defined by the software's behaviour
- b)expected outcomes are derived from a specification, not from the code
- c)expected outcomes should be predicted before a test is run
- d)expected outcomes may include timing constraints such as response times

35. The standard that gives definitions of testing terms is:

- a)ISO/IEC 12207
- b)BS 7925-1
- c)ANSI/IEEE 829
- d)ANSI/IEEE 729

36. The cost of fixing a fault:

- a)is not important
- b)increases the later a fault is found

- c)decreases the later a fault is found
- d)can never be determined

37. Which of the following is NOT included in the Test Plan document of the Test Documentation Standard?

- a)what is not to be tested
- b)test environment properties
- c)quality plans
- d)schedules and deadlines

38. Could reviews or inspections be considered part of testing?

- a)no, because they apply to development documentation
- b)no, because they are normally applied before testing
- c)yes, because both help detect faults and improve quality
- d)yes, because testing includes all non-constructive activities

39. Which of the following is not part of performance testing?

- a)measuring response times
- b)recovery testing
- c)simulating many users
- d)generating many transactions

40. Error guessing is best used:

- a)after more formal techniques have been applied
- b)as the first approach to deriving test cases
- c)by inexperienced testers
- d)after the system has gone live

Answers:

- 1 C
- 2 C
- 3 D
- 4 D
- 5 C
- 6 A
- 7 B
- 8 A
- 9 C
- 10 D
- 11 B
- 12 B
- 13 D
- 14 C
- 15 D
- 16 C
- 17 B

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18 C
19 B
20 A
21 A
22 D
23 A
24 D
25 A
26 A
27 C
28 B
29 D
30 C
31 B
32 A
33 D
34 A
35 B
36 B
37 C
38 C
39 B
40 A

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ISTQB Foundation Sample Question Paper No. 13

1. The process starting with the terminal modules is called -

- a. Top-down integration
- b. Bottom-up integration
- c. None of the above
- d. Module integration

2. The inputs for developing a test plan are taken from

- a. Project plan
- b. Business plan
- c. Support plan
- d. None of the above

3. If an expected result is not specified then:

- a. We cannot run the test
- b. It may be difficult to repeat the test
- c. It may be difficult to determine if the test has passed or failed
- d. We cannot automate the user inputs

4. 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

5. Test are prioritized so that:

- a. You shorten the time required for testing
- b. You do the best testing in the time available
- c. You do more effective testing
- d. You find more faults

6. Which of the following is not a static testing technique

- a. Error guessing
- b. Walkthrough
- c. Data flow analysis
- d. Inspections

7. Which of the following statements about component testing is not true?

- a. Component testing should be performed by development
- b. Component testing is also known as isolation or module testing

- c. Component testing should have completion criteria planned
- d. Component testing does not involve regression testing

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

- a. Execution
- b. Design
- c. Planning
- d. Check Exit criteria completion

9. Which, in general, is the least required skill of a good tester?

- a. Being diplomatic
- b. Able to write software
- c. Having good attention to detail
- d. Able to be relied on

10. 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

11. Verification is:

- a. Checking that we are building the right system
- b. Checking that we are building the system right
- c. Performed by an independent test team
- d. Making sure that it is what the user really wants

12. A regression test:

- a. Will always be automated
- b. Will help ensure unchanged areas of the software have not been affected
- c. Will help ensure changed areas of the software have not been affected
- d. Can only be run during user acceptance testing

13. Function/Test matrix is a type of

- a. Interim Test report
- b. Final test report
- c. Project status report
- d. Management report

14. Defect Management process does not include

- a. Defect prevention
- b. Deliverable base-lining
- c. Management reporting
- d. None of the above

15. What is the difference between testing software developed by contractor outside your country, versus testing software developed by a contractor within your country?

- a. Does not meet people needs
- b. Cultural difference
- c. Loss of control over reallocation of resources
- d. Relinquishments of control

16. Software testing accounts to what percent of software development costs?

- a. 10-20
- b. 40-50
- c. 70-80
- d. 5-10

17. A reliable system will be one that:

- a. Is unlikely to be completed on schedule
- b. Is unlikely to cause a failure
- c. Is likely to be fault-free
- d. Is likely to be liked by the users

18. How much testing is enough

- a. This question is impossible to answer
- b. The answer depends on the risks for your industry, contract and special requirements
- c. The answer depends on the maturity of your developers
- d. The answer should be standardized for the software development industry

19. Which of the following is not a characteristic for Testability?

- a. Operability
- b. Observability
- c. Simplicity
- d. Robustness

20. Cyclomatic Complexity method comes under which testing method.

- a. White box
- b. Black box
- c. Green box
- d. Yellow box

21. Which of these can be successfully tested using Loop Testing methodology?

- a. Simple Loops
- b. Nested Loops
- c. Concatenated Loops
- d. All of the above

22. To test a function, the programmer has to write a _____, which calls the function and

passes it test data.

- a. Stub
- b. Driver
- c. Proxy
- d. None of the above

23. Equivalence partitioning is:

- a. A black box testing technique used only by developers
- b. A black box testing technique than can only be used during system testing
- c. A black box testing technique appropriate to all levels of testing
- d. A white box testing technique appropriate for component testing

24. When a new testing tool is purchased, it should be used first by:

- a. A small team to establish the best way to use the tool
- b. Everyone who may eventually have some use for the tool
- c. The independent testing team
- d. The vendor contractor to write the initial scripts

25. Inspections can find all the following except

- a. Variables not defined in the code
- b. Spelling and grammar faults in the documents
- c. Requirements that have been omitted from the design documents
- d. How much of the code has been covered

Answers:

- | | |
|---------|---------|
| 1)- b | 14) - b |
| 2)- a | 15) - b |
| 3)- c | 16) - b |
| 4)- d | 17) - b |
| 5)- b | 18) - b |
| 6)- a | 19) - d |
| 7)- d | 20) - a |
| 8)- c | 21) - d |
| 9) - b | 22) - b |
| 10) - d | 23) - c |
| 11) -b | 24) - a |
| 12) - b | 25) - d |

ISTQB Foundation Sample Question Paper No. 14

1. What is failure?

- A. Deviation from expected result to actual result
- B. Defect in the software.
- C. Error in the program code.
- D. Fault in the system.

2. People who don't participate in technical reviews

- A. Analysts
- B. Management
- C. Developers
- D. Testers

3. What type of testing is done to supplement the rigorous testing?

- A. Regression testing.
- B. Integration testing.
- C. Error Guessing
- D. System testing.

4. Capture and replay facilities are least likely to be used to

- A. Performance testing
- B. Recovery testing
- C. GUI testing
- D. User requirements.

5. What is the smallest number of test cases required to Provide 100% branch coverage?

```
If(x>y) x=x+1;  
else y=y+1;  
while(x>y)  
{  
    y=x*y; x=x+1;  
}
```

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

6. Cyclomatic complexity is used to calculate

- A. number of independent paths in the basis set of a program
- B. number of binary decisions + 1
- C. upper bound for the number of tests that must be conducted to ensure that all statements have been executed at least once
- D. number of branches and decisions

7. If a candidate is given an exam of 40 questions, should get 25 marks to pass (61%) and should get 80% for distinction, what is equivalence class.

- A. 23, 24, 25
- B. 0, 12, 25
- C. 30, 36, 39
- D. 32,37,40

8. Match the following:

- 1. Test estimation
- 2. Test control
- 3. Test monitoring
- a. measures of tracking process
- b. effort required to perform activities
- c. reallocation of resources

- A. 1-b, 2-c, 3-a
- B. 1-b, 2-a, 3-c
- C. 1-c, 2-a, 3-b
- D. 1-a, 2-b, 3-c

9. One of the following is not a part of white box testing as per BS7925-II standards.

- A. Random testing
- B. Data Flow testing.
- C. Statement testing.
- D. Syntax testing.

10. Exclusive use of white box testing in a test-phase will:

- A. Ensure the test item is adequately tested.
- B. Make the need for black-box testing redundant.
- C. Run the risk that the requirements are not satisfied.
- D. Suffices for the unit testing phase.

11. Match the following.

- 1. Configuration identification
 - 2. Configuration control
 - 3. Status reporting
 - 4. Configuration auditing
 - a. Maintains of CI's in a library
 - b. Checks on the contents of the library
 - c. Function recording and tracking problems.
 - d. Requires the all CI's and their versions in the system are known
- A. 1-d, 2-c, 3-d, 4-a.
 - B. 1-d, 2-a, 3-c, 4-b.
 - C. 1-a, 2-b, 3-d, 4-c.
 - D. 1-c, 2-b, 3-a, 4-d.

12. Cost of the reviews will not include.

- A. Review process itself
- B. Metrics analysis
- C. Tool support.
- D. Process improvement.

13. What type of testing will you perform on internet banking solution?

- A. System integration
- B. Functional testing
- C. Non-functional testing.
- D. Requirements testing

14. Which tool will be used to test the flag memory leaks and unassigned pointers

- A. Dynamic analysis tool
- B. Static Analysis tool.
- C. Maintenance tool.
- D. Configuration tool.

15. Which of the following is not included in Test Plan.

- A. Features to be tested.
- B. Environmental needs.
- C. Suspension criteria.
- D. Expected results.

16. A piece of software has been given....what tests in the Following will you perform?

- 1) Test the areas most critical to business processes
 - 2) Test the areas where faults will be maximum
 - 3) Test the easiest functionalities
- A. 1&2 are true and 3 is false.
 - B. 1,2&3 are true.
 - C. 1 is true, 2&3 are false.
 - D. 1&2 are false, 3 is true.

17. Amount of testing performed will not depend on

- A. Risks involved
- B. Contractual requirements
- C. Legal requirements
- D. Test data.

18. Which of the following provides the biggest potential cost saving from use of CAST?

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

19. Testing is not done to

- A. Find faults
- B. Improve quality
- C. Check user friendliness.
- D. Improve software accuracy

20. Software quality is not relevant to ...

- A. Correctness
- B. Usability
- C. Viability
- D. Reusability.

21. Which of the following are false?

- A. Incidents should always be investigated and resolved.
- B. Incidents occur when expected and actual results differ.
- C. Incidents can be analyzed to assist in test process improvement.
- D. An incident can be raised against documentation.

22. Which of the following is a type of non-functional testing?

- A. Usability testing.
- B. Statement Coverage.
- C. Dataflow testing.
- D. Cause-effect graphing.

23. To make a test effective it is most important that:

- A. It is easy to execute.
- B. It is designed to detect faults if present.
- C. The expected outcome is specified before execution.
- D. It is unlikely to delay progress.

24. Error guessing is:

- A. An appropriate way of deriving system tests.
- B. Only used if good requirements are not available.
- C. Only used when good requirements are available.
- D. The most appropriate way of deriving system tests.

25. A standard for software testing terminology is:

- A. IEEE 802.11
- B. ISO 9001
- C. BS 7925-1
- D. BS 7925-2

26. Which of the following is true of V-model?

- A. It includes the verification of designs.

- B. It states that modules are tested against user requirements.
- C. It specifies the test techniques to be used.
- D. It only models the testing phase.

27. Which of the following is NOT part of a high level test plan?

- A. Functions not to be tested.
- B. Environmental requirements.
- C. Analysis of Specifications.
- D. Entry and Exit criteria.

28. When do you stop testing?

- A. When the specified number of faults are found.
- B. When the test completion criteria are met.
- C. When all high and medium priority tests are complete.
- D. When all statements have been executed.

29. Which of the following is least important in test management?

- A. Estimating test duration.
- B. Incident Management.
- C. Configuration Management.
- D. De-bugging.

30. How would you estimate the amount of re-testing likely to be required?

- A. Metrics from previous similar projects.
- B. Discussions with the development team.
- C. Time allocated for regression testing.
- D. Both A & B.

31. Which of the following statements is true of static analysis:

- A. Compiling code is not a form of static analysis.
- B. Static analysis need not be performed before imperative code is executed.
- C. Static analysis can find faults that are hard to find with dynamic testing.
- D. Extensive statistic analysis will not be needed if white- Box testing is to be performed.

32. Regression testing always involves

- A. Testing whether a known software fault been fixed.
- B. Executing a large number of different tests.
- C. Testing whether modifications have introduced adverse side effects.
- D. Using a test automation tool.

33. A field failure occurs when multiple users access a system. Which of the following is true?

- A. This is an acceptable risk of a multi-user system.
- B. Insufficient functional testing has been performed.

- C. This indicates an important non-functional requirement was not specified and tested.
- D. It is not possible to test against such events prior to release.

34. Integration testing in the large involves:

- A. Testing the system when combined with other systems.
- B. Testing a sub-system using stubs and drivers.
- C. Testing a system with a large number of users.
- D. Combing software components and testing them in one go.

35. Data flow analysis studies:

- A. How rapidly data is transferred through a program.
- B. The rate of change of data values as a program executes.
- C. The use of data on paths through the code.
- D. The intrinsic complexity of the code.

36. The oracle assumption is that:

- A. There is some existing system against which test output may be checked.
- B. The tester knows everything about the software under test.
- C. The tester can routinely identify the correct outcome of a test.
- D. Tools are used to check the results of testing.

36 The following text will be used in Q.37 and Q.38. In a system designed to work out the tax to be paid:

An employee has \$4000 of salary tax free
The next \$1500 is taxed at 10%
The next \$28000 is taxed at 22%
Any further amount is taxed at 40%

37. To the nearest \$ which of these is a valid Boundary Value Analysis test case?

- A. \$1500
- B. \$32001
- C. \$28000
- D. \$33501

38. Which of these groups of numbers would fall into the same equivalence class?

- A. \$5800; \$28000; \$32000
- B. \$0; \$200; \$4200
- C. \$5200; \$5500; \$28000
- D. \$28001; \$32000; \$35000

39. Which of the following is NOT a characteristic of User Acceptance Testing?

- A. Use of automated test execution tools.
- B. Testing performed by users.
- C. Testing against acceptance test criteria.
- D. Integration of system with user documentation.

40. For software to be reliable it must:

- A. Be easy to maintain.
- B. Be unlikely to cause a failure.
- C. Never fail under any circumstances.
- D. Be written according to coding standards

Answers:

- 1. A
- 2. B
- 3. C
- 4. D
- 5. B
- 6. B
- 7. D
- 8. A
- 9. D
- 10. C
- 11. B
- 12. C
- 13. C
- 14. A
- 15. D
- 16. A
- 17. D
- 18. D
- 19. D
- 20. C
- 21. C
- 22. A
- 23. C
- 24. D
- 25. C
- 26. B
- 27. C
- 28. B
- 29. D
- 30. A
- 31. A
- 32. C
- 33. C
- 34. A
- 35. B
- 36. C
- 37. D
- 38. A

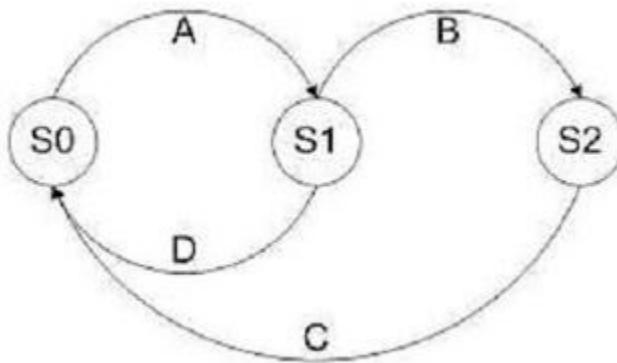
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- 39. A
- 40. B

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ISTQB Foundation Sample Question Paper No. 15

Q. 1: Given the following state transition table Which of the test cases below will cover the following series of state transitions? S1 SO S1 S2 SO



- A. D, A, B, C.
- B. A, B, C, D.
- C. D, A, B.
- D. A, B, C.

Q. 2: From a Testing perspective, what are the MAIN purposes of Configuration Management?:

- i) Identifying the version of software under test.
- ii) Controlling the version of testware items.
- iii) Developing new testware items.
- iv) Tracking changes to testware items.
- v) Analysing the need for new testware items.

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

Q. 3: Which of the following is a MAJOR task of test planning?

- A. Scheduling test analysis and design tasks.
- B. Initiating corrective actions.
- C. Monitoring progress and test coverage.
- D. Measuring and analyzing results.

Q. 4: Which of the following BEST describes the difference between an inspection and a walkthrough?

- A. Both inspections and walkthroughs are led by the author.

- B. An inspection is led by a moderator and a walkthrough is led by the author.
- C. Both inspections and walkthroughs are led by a trained moderator.
- D. A walkthrough is led by the author. The author is not present during inspections.

Q. 5: Where may functional testing be performed?

- A. At system and acceptance testing levels only.
- B. At all test levels.
- C. At all levels above integration testing.
- D. At the acceptance testing level only.

Q. 6: What is the MAIN objective when reviewing a software deliverable?

- A. To identify potential application failures by use of a test specification.
- B. To identify defects in any software work product.
- C. To identify spelling mistakes in a requirements specification.
- D. To identify standards inconsistencies in the code.

Q. 7: Who would USUALLY perform debugging activities?

- A. Developers.
- B. Analysts.
- C. Testers.
- D. Incident Managers.

Q. 8: Which of the following would you NOT usually find on a software incident report?

- A. The name and/or organisational position of the person raising the problem.
- B. Version of the Software Under Test.
- C. Suggestions as to how to fix the problem.
- D. Actual and expected results.

Q. 9: Which of the following defines the expected results of a test?

- A. Test case specification.
- B. Test design specification.
- C. Test procedure specification.
- D. Test results.

Q. 10: Some tools are geared more for developer use. For the 5 tools listed, which statement BEST details those for developers

- i) Performance testing tools.
- ii) Coverage measurement tools.
- iii) Test comparators.

iv) Dynamic analysis tools.

v) Incident management tools.

- A. i, iii. and iv. are more for developers.
- B. ii. and iv. are more for developers.
- C. ii, iii. and iv. are more for developers.
- D. ii. and iii. are more for developers.

Q. 11: Which of the following is correct?

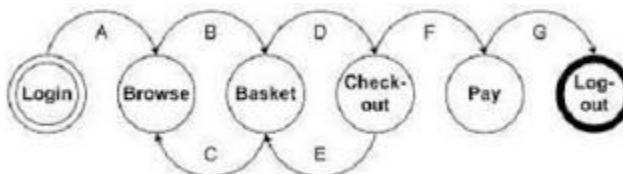
- A. Impact analysis assesses the effect on the system of a defect found in regression testing.
- B. Impact analysis assesses the effect of a new person joining the regression test team.
- C. Impact analysis assesses whether or not a defect found in regression testing has been fixed correctly.
- D. Impact analysis assesses the effect of a change to the system to determine how much regression testing to do.

Q. 12: As part of which test process do you determine the exit criteria?

- A. Test planning.
- B. Evaluating exit criteria and reporting.
- C. Test closure.
- D. Test control.

Q. 13: Given the following state transition diagram Which of the following series of state transitions contains an INVALID transition which may indicate a fault in the system design?

Exhibit:



- A. Login Browse Basket Checkout Basket Checkout Pay Logout.
- B. Login Browse Basket Checkout Pay Logout.
- C. Login Browse Basket Checkout Basket Logout.
- D. Login Browse Basket Browse Basket Checkout Pay Logout.

Q. 14: Which of the following is a MAJOR task of test implementation and execution?

- A. Measuring and analyzing results.
- B. Reporting discrepancies as incidents.
- C. Identifying test conditions or test requirements.
- D. Assessing if more tests are needed.

Q. 15: What is beta testing?

- A. Testing performed by potential customers at the developers location.
- B. Testing performed by potential customers at their own locations.
- C. Testing performed by product developers at the customer's location.
- D. Testing performed by product developers at their own locations.

Q. 16: Given the following fragment of code, how many tests are required for 100% decision coverage?

```
if width > length then  
biggest_dimension = width  
if height > width then  
biggest_dimension = height end_if  
else  
biggest_dimension = length if height > length  
then  
biggest_dimension = height end_if  
end_if
```

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

Q. 17: You have designed test cases to provide 100% statement and 100% decision coverage for the following fragment of code.

```
if width > length then  
biggest_dimension = width else  
biggest_dimension = length end_if
```

The following has been added to the bottom of the code fragment above.

```
print "Biggest dimension is " & biggest_dimension print "Width: " & width  
print "Length: " & length
```

How many more test cases are required?

- A. One more test case will be required for 100 % decision coverage.
- B. Two more test cases will be required for 100 % statement coverage, one of which will be used to provide 100% decision coverage.
- C. None, existing test cases can be used.
- D. One more test case will be required for 100" statement coverage.

Q. 18: A thermometer measures temperature in whole degrees only. If the temperature falls below 18 degrees, the heating is switched off. It is switched on again when the temperature reaches 21 degrees. What are the best values in degrees to cover all equivalence partitions?

- A. 15, 19 and 25.
- B. 17, 18 and 19.
- C. 18, 20 and 22.
- D. 16, 26 and 32.

Q. 19: Which activity in the fundamental test process creates test suites for efficient test execution?

- A. Implementation and execution.
- B. Planning and control.
- C. Analysis and design.
- D. Test closure.

Q. 20: Which of the following is TRUE?

- A. Confirmation testing is testing fixes to a set of defects and Regression testing is testing to establish whether any defects have been introduced as a result of changes.
- B. Confirmation testing is testing to establish whether any defects have been introduced as a result of changes and Regression testing is testing fixes to a set of defects.
- C. Confirmation testing and Regression testing are both testing to establish whether any defects have been introduced as a result of changes.
- D. Confirmation testing and Regression testing are both testing fixes to a set of defects.

Q. 21: Given the following decision table: Which of the following test cases and expected results is VALID?

	Rule 1	Rule 2	Rule 3	Rule 4
Conditions				
Age	<21 yrs	21-29 yrs	30-50yrs	> 50yrs
Insurance Class	A	A or B	B, C or D	C or D
Actions				
Premium	£100	£90	£70	£70
Excess	£2,500	£2,500	£500	£1000

- A. 23 year old in insurance class A Premium is 0 and excess is ,500.
- B. 51 year old in insurance class C Premium is 0 and excess is 00.
- C. 31 year old in insurance class B Premium is 0 and excess is ,500.

D. 43 year old in insurance class C Premium is 0 and excess is ,000.

Q. 22: When should configuration management procedures be implemented?

- A. During test planning.
- B. During test analysis.
- C. During test execution.
- D. When evaluating exit criteria

Q. 23: Which of the following are characteristic of regression testing ?

- i) Regression testing is run ONLY once
- ii) Regression testing is used after fixes have been made
- iii) Regression testing is often automated
- iv) Regression tests need not be maintained

Options:

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

Q. 24: A wholesaler sells printer cartridges. The minimum order quantity is 5. There is a 20% discount for orders of 100 or more printer cartridges. You have been asked to prepare test cases using various values for the number of printer cartridges ordered. Which of the following groups contain three test inputs that would be generated using Boundary Value Analysis?

- A. 5, 6, 20
- B. 4, 5, 80
- C. 4, 5, 99
- D. 1, 20, 100

Q. 25: Which of the following activities should be performed during the selection and implementation of a testing tool?

- i) Investigate the organisation's test process. ii) Conduct a proof of concept.
- iii) Implement the selected tool on a project behind schedule to save time.
- iv) Identify coaching and mentoring requirements for the use of the selected tool.

Options:

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

D. i, ii, iv.

Q. 26: What is the MAIN benefit of designing tests early in the life cycle?

- A. It is cheaper than designing tests during the test phases.
- B. It helps prevent defects from being introduced into the code.
- C. Tests designed early are more effective than tests designed later.
- D. It saves time during the testing phases when testers are busy.

Q. 27: Which of the following benefits are MOST likely to be achieved by using test tools?

- i) Easy to access information about tests and testing.
- ii) Reduced maintenance of testware.
- iii) Easy and cheap to implement.
- iv) Greater consistency of tests.

Options:

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

Q. 28: What is the KEY difference between preventative and reactive approaches to testing?

- A. Preventative tests and reactive tests are designed as early as possible.
- B. Preventative tests are designed early; reactive tests are designed after the software has been produced.
- C. Preventative testing is always analytical; reactive testing is always heuristic.
- D. Preventative tests are designed after the software has been produced; reactive tests are designed early in response to review comments.

Q. 29: What is the purpose of exit criteria?

- A. To define when a test level is complete.
- B. To determine when a test has completed.
- C. To identify when a software system should be retired.
- D. To determine whether a test has passed.

Q. 30: What determines the level of risk?

- A. The cost of dealing with an adverse event if it occurs.
- B. The probability that an adverse event will occur.
- C. The amount of testing planned before release of a system.

D. The likelihood of an adverse event and the impact of the event.

Q. 31: With which of the following categories is a test comparator tool USUALLY associated?

- A. Tool support for performance and monitoring.
- B. Tool support for static testing.
- C. Tool support for test execution and logging.
- D. Tool support for the management of testing and tests.

Q. 32: 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 false.

Q. 33: Match the following terms and statements.

- 1.Decision Table Testing
- 2.Decision Testing
- 3.State Transition Testing
- 4.Exploratory Testing

W. Testing carried out w boxes to achieve specific test objectives, possibly to complement structured testing.

X. A test technique used which may be used to verify different system re depending on current conditions or previous history.

Y. A test technique which combines combinations of inputs that might not otherwise have been exercised during testing.

Z. A form of control flow testing based on decision outcomes.

Options:

- A. 1Y, 2Z, 3X, 4W.
- B. 1X ,2W, 3Z, 4Y.
- C. 1Z, 2X, 3W, 4Y.
- D. 1Z, 2Y, 3X, 4W.

Q. 34: Which type of test design techniques does the following statement best

describe a procedure to derive test cases based on the specification of a component?

- A. Black Box Techniques.
- B. White Box Techniques.
- C. Glass Box Techniques.
- D. Experience Based Techniques.

Q. 35: For which of the following would a static analysis tool be MOST useful?

- A. Supporting reviews.
- B. Validating models of the software.
- C. Testing code executed in a special test harness.
- D. Enforcement of coding standards.

Q. 36: Which of the following types of defects is use case testing MOST LIKELY to uncover?

- i) Defects in the process flows during real-world use of the system.
 - ii) Defects in the interface parameters in integration testing.
 - iii) Integration defects caused by the interaction and interference of different components.
 - iv) Defects in the system as it transitions between one state and another.
- A. ii, iii.
 - B. i, iii.
 - C. iii, iv.
 - D. i, ii

Q. 37: Which of the following is MOST important in the selection of a test approach?

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

Q. 38: 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 developers.

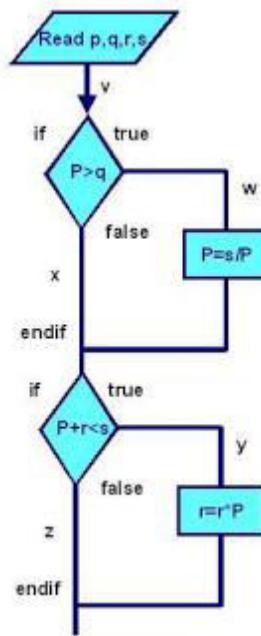
Q. 39: The above diagram represents the following paths through the code.

- A. vwy
- B. vwz

- C. vxv
- D. vxz

What is the MINIMUM combination of paths required to provide full statement coverage?

Exhibit:



- A. A
- B. ABD
- C. ABCD
- D. ACD

Q. 40: Which of the following is MOST characteristic of specification based (black-box) techniques?

- A. Test cases can be easily automated.
- B. Test cases are independent of each other.
- C. Test cases are derived systematically from models of the system.
- D. Test cases are derived systematically from the delivered code.

Answers:

- Q. 1-A
- Q. 2-C
- Q. 3-A
- Q. 4-B
- Q. 5-B
- Q. 6-B
- Q. 7-A
- Q. 8-C

- Q. 9-A
- Q. 10-B
- Q. 11-D
- Q. 12-A
- Q. 13-C
- Q. 14-B
- Q. 15-B
- Q. 16-B
- Q. 17-C
- Q. 18-A
- Q. 19-A
- Q. 20-A
- Q. 21-A
- Q. 22-A
- Q. 23-B
- Q. 24-C
- Q. 25-D
- Q. 26-B
- Q. 27-C
- Q. 28-B
- Q. 29-A
- Q. 30-D
- Q. 31-C
- Q. 32-B
- Q. 33-A
- Q. 34-A
- Q. 35-D
- Q. 36-B
- Q. 37-C
- Q. 38-C
- Q. 39-A
- Q. 40-C

ISTQB Foundation Sample Question Paper No. 16

Q. 1: Which of the following combinations correctly describes a valid approach to component testing:

- i) Functional testing of the component in isolation.
- ii) Structure-based testing of the code without recording incidents.
- iii) Automated tests that are run until the component passes.
- iv) Functional testing of the interfaces between modules.

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

Q. 2: Which of the following is a purpose of the review planning phase?

- A. Log defects.
- B. Explain the documents to the participants.
- C. Gather metrics.
- D. Allocate the individual roles.

Q. 3: A defect arrival rate curve:

- A. Shows the number of newly discovered defects per unit time
- B. Shows the number of open defects per unit time.
- C. Shows the cumulative total number of defects found up to this time.
- D. Any of these, depending on the company.

Q. 4: Which is the best definition of complete testing:

- A. You have discovered every bug in the program.
- B. You have tested every statement, branch, and combination of branches in the program.
- C. You have completed every test in the test plan.
- D. You have reached the scheduled ship date.

Q. 5: Complete statement and branch coverage means:

- A. That you have tested every statement in the program.
- B. That you have tested every statement and every branch in the program.
- C. That you have tested every IF statement in the program.
- D. That you have tested every combination of values of IF statements in the program

Q. 6: There are several risks of managing your project's schedule with a statistical reliability model. These include (choose one or more of the following):

- A. Testers spend more energy early in the product trying to find bugs than preparing to do the rest of the project's work more efficiently
- B. Managers might not realize that the testing effort is ineffective, late in the project, because they expect a low rate of bug finding, so the low rate achieved doesn't alarm them.

- C. It can increase the end-of-project pressure on testers to not find bugs, or to not report bugs.
- D. All of the above

Q. 7: Typical defects that are easier to find in reviews than in dynamic testing are:

- A. Deviations from standards,
- B. Requirement defects,
- C. Design defects,
- D. Insufficient maintainability and incorrect interface specifications.
- E. All of the above.

Q. 8: Reviews, static analysis and dynamic testing have the same objective

- A. Identifying defects.
- B. Fixing defects.
- C. A. and B
- D. None of the above

Q. 9: We can achieve complete statement coverage but still miss bugs because:

- A. The failure occurs only if you reach a statement taking the TRUE branch of an IF statement, and you got to the statement with a test that passed through the FALSE branch.
- B. The failure depends on the program's inability to handle specific data values, rather than on the program's flow of control.
- C. We are not required to test code that customers are unlikely to execute.
- D. All of the above

Q. 10: Measurement dysfunction is a problem because:

- A. Even though the numbers you look at appear better, to achieve these numbers, people are doing other aspects of their work much less well.
- B. We don't know how to measure a variable (our measurement is dysfunctional) and so we don't know how to interpret the result.
- C. You are measuring the wrong thing and thus reaching the wrong conclusions.
- D. All of the above.

**Q. 11: Important consequences of the impossibility of complete testing are
(Choose one or more answers):**

- 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.

Q. 12: Poor software characteristics are

- A. Only Project risks
- B. Only Product risks
- C. Project risks and Product risks

D. Project risks or Product risks

Q. 13: System testing should investigate

- A. Non-functional requirements only not Functional requirements
- B. Functional requirements only not non-functional requirements
- C. Non-functional requirements and Functional requirements
- D. Non-functional requirements or Functional requirements

Q. 14: Contract and regulation testing is a part of

- A. System testing
- B. Acceptance testing
- C. Integration testing
- D. Smoke testing

Q. 15: Find the correct flow of the phases of a formal review

- A. Planning, Review meeting, Rework, Kick off
- B. Planning, Individual preparation, Kick off, Rework
- C. Planning, Review meeting, Rework, Follow up
- D. Planning, Individual preparation, Follow up, Kick off

Q. 16: Which is not the testing objectives

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

Q. 17: Maintenance releases and technical assistance centers are examples of which of the following costs of quality?

- A. External failure
- B. Internal failure
- C. Appraisal
- D. Prevention

Q. 18: Which is not the project risks

- A. Supplier issues
- B. Organization factors
- C. Technical issues
- D. Error-prone software delivered

Q. 19: Bug life cycle

- A. Open, Assigned, Fixed, Closed
- B. Open, Fixed, Assigned, Closed
- C. Assigned, Open, Closed, Fixed
- D. Assigned, Open, Fixed, Closed

Q. 20: Who is responsible for document all the issues, problems and open point that were identified during the review meeting

- A. Moderator
- B. Scribe
- C. Reviewers
- D. Author

Q. 21: 'X' has given a data on a person age, which should be between 1 to 99. Using

BVA which is the appropriate one

- A. 0,1,2,99
- B. 1, 99, 100, 98
- C. 0, 1, 99, 100
- D. -1, 0, 1, 99

Q. 22: Which is not a testing principle

- A. Early testing
- B. Defect clustering
- C. Pesticide paradox
- D. Exhaustive testing

Q. 23: A project that is in the implementation phase is six weeks behind schedule. The delivery date for the product is four months away. The project is not allowed to slip the delivery date or compromise on the quality standards established for his product. Which of the following actions would bring this project back on schedule?

- A. Eliminate some of the requirements that have not yet been implemented.
- B. Add more engineers to the project to make up for lost work.
- C. Ask the current developers to work overtime until the lost work is recovered.
- D. Hire more software quality assurance personnel.

Q. 24: The Testing will be performed by the people at client own locations

- A. Alpha testing
- B. Field testing
- C. Performance testing
- D. System testing

Q. 25: Which of the following is the standard for the Software product quality

- A. ISO 1926
- B. ISO 829
- C. ISO 1012
- D. ISO 1028

Q. 26: Which is not a black box testing technique

- A. Equivalence partition
- B. Decision tables

- C. Transaction diagrams
- D. Decision testing

Q. 27: Find the mismatch

- A. Test data preparation tools – Manipulate Data bases
- B. Test design tools – Generate test inputs
- C. Requirement management tools – Enables individual tests to be traceable
- D. Configuration management tools – Check for consistence

Q. 28: Use cases can be performed to test

- A. Performance testing
- B. Unit testing
- C. Business scenarios
- D. Static testing

Q. 29: 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. 30: 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 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. 31: 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. 32: 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. 33: Arc testing is known as

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

Q. 34: 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. 35: 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. 36: The _____ testing is performed at the developing organization's site

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

Q. 37: 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. 38: Which is not a Component testing

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

Q. 39: 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. 40: Which is not the fundamental test process

- A. Planning and control
- B. Test closure activities

- C. Analysis and design
- D. None

Answers:

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

ISTQB Foundation Sample Question Paper No. 17

Q. 1: The _____ and _____ are used within individual workbenches to produce the right output products.

- A. Tools and techniques
- B. Procedures and standards
- C. Processes and walkthroughs
- D. Reviews and update

Q. 2: Which is not the software characteristics

- A. Reliability
- B. Usability
- C. Scalability
- D. Maintainability

Q. 3: The principle of Cyclomatic complexity, considering L as edges or links, N as nodes, P as independent paths

- A. $L-N +2P$
- B. $N-L +2P$
- C. $N-L +P$
- D. $N-L +P$

Q. 4: FPA is used to

- A. To measure the functional requirements of the project
- B. To measure the size of the functionality of an Information system
- C. To measure the functional testing effort
- D. To measure the functional flow

Q. 5: A _____ is the step-by-step method followed to ensure that standards are met

- A. SDLC
- B. Project Plan
- C. Policy
- D. Procedure

Q. 6: Which is not a test Oracle

- A. The existing system (For a bench mark)
- B. The code
- C. Individual's knowledge
- D. User manual

Q. 7: PDCA is known as

- A. Plan, Do, Check, Act
- B. Plan, Do, Correct, Act
- C. Plan, Debug, Check, Act
- D. Plan, Do, Check, Accept

Q. 8: Which is the non-functional testing

- A. Performance testing
- B. Unit testing
- C. Regression testing
- D. Sanity testing

Q. 9: A Test Plan Outline contains which of the following:

- i. Test Items
- ii. Test Scripts
- iii. Test Deliverables

iv. Responsibilities

- A. i,ii,iii are true and iv is false
- B. i,iii,iv are true and ii is false
- C. ii,iii are true and i and iv are false
- D. i,ii are false and iii , iv are true

Q. 10: 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. 11: 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. 12: 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. 13: White Box Techniques are also called as:

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

Q. 14: 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. 15: 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

Q. 16: 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. 17: 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. 18: 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. 19: 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. 20: Methodologies adopted while performing Maintenance Testing:-

- A. Breadth Test and Depth Test
- B. Re-testing
- C. Confirmation Testing
- D. Sanity Testing

Q. 21: 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

Q. 22: What is an equivalence partition (also known as an equivalence class)?

- A. A set of test cases for testing classes of objects
- B. An input or output range of values such that only one value in the range becomes a test case
- C. An input or output range of values such that each value in the range becomes a test case
- D. An input or output range of values such that every tenth value in the range becomes a test case.

Q. 23: Which of the following is not a part of the Test Implementation and Execution Phase

- A. Creating test suites from the test cases
- B. Executing test cases either manually or by using test execution tools
- C. Comparing actual results
- D. Designing the Tests

Q. 24: Link Testing is also called as :

- A. Component Integration testing
- B. Component System Testing
- C. Component Sub System Testing
- D. Maintenance testing

Q. 25: Who are the persons involved in a Formal Review :-

- i. Manager
- ii. Moderator
- iii. Scribe / Recorder iv. Assistant Manager

- A. i,ii,iii,iv are true
- B. i,ii,iii are true and iv is false. C. ii,iii,iv are true and i is false.
- D. i,iv are true and ii, iii are false.

Q. 26: Which of the following statements regarding static testing is false:

- A. Static testing requires the running of tests through the code
- B. Static testing includes desk checking
- C. Static testing includes techniques such as reviews and inspections
- D. Static testing can give measurements such as cyclomatic complexity

Q. 27: 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

Q. 28: A Type of functional Testing, which investigates the functions relating to detection of threats, such as virus from malicious outsiders.

- A. Security Testing
- B. Recovery Testing
- C. Performance Testing
- D. Functionality Testing

Q. 29: A Person who documents all the issues, problems and open points that were identified during a formal review.

- A. Moderator.
- B. Scribe
- C. Author
- D. Manager

Q. 30: The Test Cases Derived from use cases

- A. Are most useful in uncovering defects in the process flows during real world use of the system
- B. Are most useful in uncovering defects in the process flows during the testing use of the system
- C. Are most useful in covering the defects in the process flows during real world use of the system
- D. Are most useful in covering the defects at the Integration Level

Q. 31: One of the fields on a form contains a text box which accepts alpha numeric values. Identify the Valid Equivalence class

- A. BOOK
- B. Book
- C. Boo01k
- D. book

Q. 32: In an Examination a candidate has to score minimum of 24 marks in order to clear the exam. The maximum that he can score is 40 marks. Identify the Valid Equivalence values if the student clears the exam.

- A. 22,23,26
- B. 21,39,40
- C. 29,30,31
- D. 0,15,22

Q. 33: Verification 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 obsoleteness.

- A. Options i,ii,iii,iv are true.
- B. i is true and ii,iii,iv are false
- C. i,ii,iii are true and iv is false
- D. ii is true and i,iii,iv are false.

Q. 34: A Project risk includes which of the following :

- A. Organizational Factors
- B. Poor Software characteristics
- C. Error Prone software delivered.
- D. Software that does not perform its intended functions

Q. 35: Which of the following is a Key Characteristics of Walk Through

- A. Scenario , Dry Run , Peer Group
- B. Pre Meeting Preparations
- C. Formal Follow Up Process
- D. Includes Metrics

Q. 36: Which of the following techniques is NOT a White box technique?

- A. Statement Testing and coverage
- B. Decision Testing and coverage
- C. Condition Coverage
- D. Boundary value analysis

Q. 37: 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

Q. 38: In a risk-based approach the risks identified may be used to :

- i. Determine the test technique to be employed
- ii. Determine the extent of testing to be carried out
- iii. Prioritize testing in an attempt to find critical defects as early as possible.
- iv. Determine the cost of the project

- A. ii is True; i, iii, iv & v are False
- B. i,ii,iii are true and iv is false
- C. ii & iii are True; i, iv are False
- D. ii, iii & iv are True; i is false

Q. 39: Incidents would not be raised against:

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

Q. 40: The Planning phase of a formal review includes the following :-

- A. Explaining the objectives
- B. Selecting the personnel, allocating roles.
- C. Follow up
- D. Individual Meeting preparations

Answers:

- Q.1-B
- Q.2-C
- Q.3-A
- Q.4-B
- Q.5-D
- Q.6-B
- Q.7-A
- Q.8-A
- Q.9-B
- Q.10-A
- Q.11-B
- Q.12-C
- Q.13-A
- Q.14-A
- Q.15-A
- Q.16-B
- Q.17-B
- Q.18-C
- Q.19-B
- Q.20-A
- Q.21-C
- Q.22-B
- Q.23-D
- Q.24-A
- Q.25-B
- Q.26-A
- Q.27-B
- Q.28-A
- Q.29-B
- Q.30-A
- Q.31-C
- Q.32-C
- Q.33-B
- Q.34-A
- Q.35-A
- Q.36-D

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Q.37-B
Q.38-B
Q.39-D
Q.40-B

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ISTQB Foundation Sample Question Paper No. 18

Q. 1: Test Implementation and execution has which of the following major tasks?

- i. Developing and prioritizing test cases, creating test data, writing test procedures and optionally preparing the test harnesses and writing automated test scripts.
- ii. Creating the test suite from the test cases for efficient test execution.
- iii. Verifying that the test environment has been set up correctly.
- iv. Determining the exit criteria.

- A. i,ii,iii are true and iv is false
- B. i,,iv are true and ii is false
- C. i,ii are true and iii,iv are false
- D. ii,iii,iv are true and i is false

Q. 2: One of the fields on a form contains a text box which accepts numeric values in the range of 18 to 25. Identify the invalid Equivalence class

- A. 17
- B. 19
- C. 24
- D. 21

Q. 3: Exhaustive Testing is

- A. Is impractical but possible
- B. Is practically possible
- C. Is impractical and impossible
- D. Is always possible

Q. 4: 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

Q. 5: Which one is not comes under international standard

- A. IEC
- B. IEEE
- C. ISO
- D. All of the above

Q. 6: In which phase static tests are used

- A. Requirements
- B. Design
- C. Coding
- D. All of the above

Q. 7: What's the disadvantage of Black Box Testing

- A. Chances of having repetition of tests that are already done by programmer.
- B. The test inputs needs to be from large sample space.
- C. It is difficult to identify all possible inputs in limited testing time. So writing test cases is slow and difficult
- D. All above

Q. 8: Static analysis tools are typically used by

- A. Testers
- B. Developers
- C. Testers & Developers
- D. None

Q. 9: Majority of system errors occur in the _____ phase

- A. Requirements Phase.
- B. Analysis and Design Phase
- C. Development Phase
- D. Testing Phase

Q. 10: The specification which describes steps required to operate the system and exercise test cases in order to implement the associated test design

- A. Test Case Specification
- B. Test Design Specification
- C. Test Procedure Specification
- D. None

Q. 11: How much percentage of the life cycle costs of a software are spent on maintenance.

- A. 10%
- B. 30%
- C. 50%
- D. 70%

Q. 12: When a defect is detected and fixed then the software should be retested to confirm that the original defect has been successfully removed. This is called

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

Q. 13: Equivalence testing divides the input domain into classes of data from which test cases can be derived to reduce the total number of test cases that must be developed.

- A. True
- B. False

Q. 14: When to stop Testing?

- A. Stop when scheduled time for testing expires
- B. Stop if 75% of the pre-defined number of errors is detected.
- C. Stop when all the test cases execute with detecting few errors.
- D. None above

Q. 15: With thorough testing it is possible to remove all defects from a program prior to delivery to the customer.

- A. True
- B. False

Q. 16: Structure is unknown for which type of development project

- A. Traditional system development
- B. Iterative development
- C. System maintenance
- D. Purchased/contracted software

Q. 17: _____ indicates how important it is to fix the bug and when it should be fixed

- A. Severity
- B. Priority
- C. All of the above
- D. None of the above

Q. 18: The person who leads the review of the document(s), planning the review, running the meeting and follow-up after the meeting

- A. Reviewer
- B. Author
- C. Moderator
- D. Auditor

Q. 19: Performs sufficient testing to evaluate every possible path and condition in the application system. The only test method that guarantees the proper functioning of the application system is called as _____

- A. Regression Testing
- B. Exhaustive Testing
- C. Basic Path Testing
- D. Branch Testing

Q. 20: Quality Assurance is the process by which product quality is compared with the application standards and the action taken when nonconformance is detected.

- A. True
- B. False

Q. 21: A formal assessment of a work product conducted by one or more qualified independent reviewer to detect defects.

- A. Inspection.
- B. Walkthrough.
- C. Review
- D. Non Conformance

Q. 22: Test Case are grouped into Manageable (and scheduled) units are called as

- A. Test Harness
- B. Test Suite
- C. Test Cycle
- D. Test Driver

Q. 23: Configuration and compatibility testing are typically good choices for outsourcing

- A. True
- B. False

Q. 24: What type of tools to be used for Regression Testing

- A. Performance
- B. Record/Playback
- C. A. & B.
- D. None

Q. 25: System Integration testing should be done after

- A. Integration testing
- B. System testing
- C. Unit testing
- D. Component integration testing

Q. 26: During this event the entire system is tested to verify that all functional information

structural and quality requirements have been met. A predetermined combination of tests is designed that when executed successfully satisfy management that the system meets specifications

- A. Validation Testing
- B. Integration Testing
- C. User Acceptance Testing
- D. System Testing

Q. 27: What is the normal order of activities in which software testing is organized?

- A. Unit, integration, system, validation
- B. System, integration, unit, validation
- C. Unit, integration, validation, system
- D. None of the above

Q. 28: The goal of a software tester is to find bugs, find them as early as possible and make sure they get fixed.

- A. True
- B. False

Q. 29: Beta testing is performed at developing organization's site where as Alpha testing is performed by people at their own locations.

- A. True
- B. False

Q. 30: The principal attributes of tools and automation are

- A. Speed & efficiency
- B. Accuracy & precision
- C. All of the above
- D. None of the above

Q. 31: In _____ testing doesn't know anything about the sofware being tested; it just clicks or types randomly.

- A. Random testing
- B. Gorilla testing
- C. Adhoc testing
- D. Dumb monkey testing

Q. 32: A series of probing questions about the completeness and attributes of an application system is called

- A. Checklist
- B. Checkpoint review
- C. Decision table
- D. Decision tree

Q. 33: The testing technique that requires devising test cases to demonstrate that each program function is operational is called

- A. Black-box testing
- B. Glass-box testing
- C. Grey-box testing
- D. White-box testing

Q. 34: A white box testing technique that measures the number of or percentage of decision directions executed by the test case designed is called

- A. Condition coverage
- B. Decision/Condition coverage
- C. Decision Coverage
- D. Branch coverage

Q. 35: Which summarizes the testing activities associated with one or more test design specifications.

- A. Test Summary report
- B. Test Log
- C. Test Incident Report
- D. Test Script

Q. 36: Testing without a real plan and test cases is called ---

- A. Gorilla testing
- B. Monkey testing
- C. Adhoc testing
- D. All of the above

Q. 37: Which rule should not be followed for reviews

- A. Defects and issues are identified and corrected
- B. The product is reviewed not the producer
- C. All members of the reviewing team are responsible for the result of the review
- D. Each review has a clear predefined objective

Q. 38: Verification can be termed as 'Are we building the product right?'

- A. True
- B. False

Q. 39: Which testing is used to verify that the system can perform properly when internal program or system limitations have been exceeded

- A. Stress Testing
- B. Load Testing
- C. Performance Testing
- D. Volume testing

Q. 40: Defects are recorded into three major purposes. They are:

- 1. To correct the defect
 - 2. To report status of the application
 - 3. To improve the software development process
- A. True
 - B. False

Answers:

- Q.1-A
- Q.2-A
- Q.3-A
- Q.4-C
- Q.5-B
- Q.6-D
- Q.7-D
- Q.8-B
- Q.9-A
- Q.10-C
- Q.11-D
- Q.12-C
- Q.13-A
- Q.14-A
- Q.15-B
- Q.16-D

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Q.17-C
Q.18-C
Q.19-C
Q.20-A
Q.21-A
Q.22-B
Q.23-A
Q.24-B
Q.25-C
Q.26-C
Q.27-A
Q.28-A
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Q.30-C
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Q.36-D
Q.37-C
Q.38-A
Q.39-A
Q.40-A

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ISTQB Foundation Sample Question Paper No. 19

Q. 1: Drivers are tools used to control and operate the software being tested.

- A. True
- B. False

Q. 2: Typical defects discovered by static analysis includes

- A. Programming standard violations
- B. Referring a variable with an undefined value
- C. Security vulnerabilities
- D. All Above

Q. 3: EULA stands for

- A. End Usability License Agreement
- B. End User License Agreement
- C. End User License Arrangement
- D. End User License Attachment

Q. 4: _____ is a very early build intended for limited distribution to a few key customers and to marketing for demonstration purposes.

- A. Alpha release
- B. Beta release
- C. Test release document
- D. Build

Q. 5: CAST stands for

- A. Computer Aided Software Testing
- B. Computer Aided Software Tools
- C. Computer Analysis Software Techniques
- D. None

Q. 6: The tool modifies the program code or manipulates the operating environment in any way is considered non-invasive

- A. True
- B. False

Q. 7: Which test may not mimic real world situations

- A. Functional testing
- B. Structural Testing
- C. All of the above
- D. None of the above

Q. 8: _____ includes both Black box and White Box Testing features

- A. Gray Box Testing
- B. Hybrid Testing
- C. A. & B.
- D. None

Q. 9: Exhaustive testing is possible

- A. True
- B. False

Q. 10: Tool which stores requirement statements, check for consistency and allow requirements to be prioritized and enable individual tests to be traceable to requirements, functions and features.

- A. Incident management tools

- B. Requirements management tools
- C. Configuration management tools
- D. None

Q. 11: The number of tests to test all control statements equals the cyclomatic complexity

- A. True
- B. False

Q. 12: Boundary value analysis can only be used during white-box testing.

- A. True
- B. False

Q. 13: Which of these are objectives for software testing?

- A. Determine the productivity of programmers
- B. Eliminate the need for future program maintenance
- C. Eliminate every error prior to release
- D. Uncover software errors

Q. 14: Failure is _____

- A. Incorrect program behaviour 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

Q. 15: 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

Q. 16: "How much testing is enough?"

- A. This question is impossible to answer
- B. This question is easy to answer
- C. The answer depends on the risk for your industry, contract and special requirements
- D. This answer depends on the maturity of your developers

Q. 17: Which of the following tools would be involved in the automation of regression test?

- A. Data tester
- B. Boundary tester
- C. Capture/Playback
- D. Output comparator.

Q. 18: Incorrect form of Logic coverage is:

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

Q. 19: Code Coverage is used as a measure of what?

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

Q. 20: Fault Masking is

- A. Error condition hiding another error condition

- B. Creating a test case which does not reveal a fault
- C. Masking a fault by developer
- D. Masking a fault by a tester

Q. 21: Which of the following is not a quality characteristic listed in ISO 9126 Standard?

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

Q. 22: 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

Q. 23: Statement Coverage will not check for the following.

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

Q. 24: Given the Following program

```
IF X <>= Z  
THEN Statement 2;  
END
```

McCabe's Cyclomatic Complexity is :

- A. 2
- B. 3
- C. 4
- D. 5

Q. 25: 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

Q. 26: Pick the best definition of quality

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

Q. 27: Boundary value testing

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

Q. 28: An input field takes the year of birth between 1900 and 2004

The boundary values for testing this field are

- A. 0,1900,2004,2005
- B. 1900, 2004
- C. 1899,1900,2004,2005
- D. 1899, 1900, 1901,2003,2004,2005

Q. 29: 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 1 else statement 2 fi  
if (Condition 2)  
then statement 3 fi
```

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

Q. 30: A common test technique during component test is

- A. Statement and branch testing
- B. Usability testing
- C. Security testing
- D. Performance testing

Q. 31: 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

Q. 32: Acceptance test cases are based on what?

- A. Requirements
- B. Design
- C. Code
- D. Decision table

Q. 33: Which one of the following are non-functional testing methods?

- A. System testing
- B. Usability testing
- C. Performance testing
- D. Both B & C

Q. 34: 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

Q. 35: Defect Management process does not include

- A. Defect prevention
- B. Deliverable base-lining
- C. Management reporting
- D. None of the above

Q. 36: 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

Q. 37: Test are prioritized so that:

- A. You shorten the time required for testing
- B. You do the best testing in the time available
- C. You do more effective testing
- D. You find more faults

Q. 38: When a new testing tool is purchased, it should be used first by:

- A. A small team to establish the best way to use the tool
- B. Everyone who may eventually have some use for the tool
- C. The independent testing team
- D. The vendor contractor to write the initial scripts

Q.39: During which test activity could faults be found most cost effectively?

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

Q. 40: What is the difference between testing software developed by contractor outside your country, versus testing software developed by a contractor within your country?

- A. Does not meet people needs
- B. Cultural difference
- C. Loss of control over reallocation of resources
- D. Relinquishment of control

Answers:

- Q.1-A
- Q.2-C
- Q.3-B
- Q.4-B
- Q.5-A
- Q.6-B
- Q.7-B
- Q.8-A
- Q.9-B
- Q.10-B
- Q.11-A
- Q.12-B
- Q.13-D
- Q.14-A
- Q.15-C
- Q.16-C
- Q.17-C
- Q.18-B
- Q.19-C

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Q.20-A
Q.21-C
Q.22-D
Q.23-A
Q.24-B
Q.25-B
Q.26-C
Q.27-B
Q.28-C
Q.29-C
Q.30-A
Q.31-B
Q.32-A
Q.33-D
Q.34-D
Q.35-B
Q.36-D
Q.37-B
Q.38-A
Q.39-C
Q.40-B

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ISTQB Foundation Sample Question Paper No. 20

Q. 1: The inputs for developing a test plan are taken from

- A. Project plan
- B. Business plan
- C. Support plan
- D. None of the above

Q. 2: To test a function, the programmer has to write a _____, which calls the function and passes it the test data.

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

Q. 3: Which of the following is not a static testing technique

- A. Error guessing
- B. Walkthrough
- C. Data flow analysis
- D. Inspections

Q. 4: Which of the following statements about component testing is not true?

- A. Component testing should be performed by development
- B. Component testing is also known as isolation or module testing
- C. Component testing should have completion criteria planned
- D. Component testing does not involve regression testing

Q. 5: Inspections can find all the following except

- A. Variables not defined in the code
- B. Spelling and grammar faults in the documents
- C. Requirements that have been omitted from the design documents
- D. How much of the code has been covered

Q. 6: Which of the following is not a characteristic for Testability?

- A. Operability
- B. Observability
- C. Simplicity
- D. Robustness

Q. 7: Software testing accounts to what percent of software development costs?

- A. 10-20
- B. 40-50
- C. 70-80
- D. 5-10

Q. 8: Equivalence partitioning is:

- A. A black box testing technique used only by developers
- B. A black box testing technique than can only be used during system testing
- C. A black box testing technique appropriate to all levels of testing
- D. A white box testing technique appropriate for component testing

Q. 9: If an expected result is not specified then:

- A. We cannot run the test
- B. It may be difficult to repeat the test
- C. It may be difficult to determine if the test has passed or failed
- D. We cannot automate the user inputs

Q. 10: How much testing is enough

- A. This question is impossible to answer
- B. The answer depends on the risks for your industry, contract and special requirements
- C. The answer depends on the maturity of your developers
- D. The answer should be standardized for the software development industry

Q. 11: 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

Q. 12: Which of these can be successfully tested using Loop Testing methodology?

- A. Simple Loops
- B. Nested Loops
- C. Concatenated Loops
- D. All of the above

Q. 13: Cyclomatic Complexity method comes under which testing method.

- A. White box
- B. Black box
- C. Green box
- D. Yellow box

Q. 14: A reliable system will be one that:

- A. Is unlikely to be completed on schedule
- B. Is unlikely to cause a failure
- C. Is likely to be fault-free
- D. Is likely to be liked by the users

Q. 15: Which, in general, is the least required skill of a good tester?

- A. Being diplomatic
- B. Able to write software
- C. Having good attention to detail
- D. Able to be relied on

Q. 16: A regression test:

- A. Will always be automated
- B. Will help ensure unchanged areas of the software have not been affected
- C. Will help ensure changed areas of the software have not been affected
- D. Can only be run during user acceptance testing

Q. 17: Function/Test matrix is a type of

- A. Interim Test report
- B. Final test report
- C. Project status report
- D. Management report

Q. 18: The process starting with the terminal modules is called:

- A. Top-down integration
- B. Bottom-up integration
- C. None of the above
- D. Module integration

Q. 19: Verification is:

- A. Checking that we are building the right system
- B. Checking that we are building the system right
- C. Performed by an independent test team
- D. Making sure that it is what the user really wants

Q. 20: The difference between re-testing and regression testing is

- A. Re-testing is running a test again; regression testing looks for unexpected side effects
- B. Re-testing looks for unexpected side effects; regression testing is repeating those tests
- C. Re-testing is done after faults are fixed; regression testing is done earlier
- D. Re-testing uses different environments, regression testing uses the same environment
- E. Re-testing is done by developers, regression testing is done by independent testers

Q. 21: 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

Q. 22: Which of the following is the main purpose of the integration strategy for integration testing in the small?

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

Q.223: 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

Q. 24: Regression testing should be performed:

- v) Every week
- w) After the software has changed
- x) As often as possible
- y) When the environment has changed
- z) When the project manager says

- A. v & w are true, x - z are false
- B. w, x & y are true, v & z are false
- C. w & y are true, v, x & z are false
- D. w is true, v, x y and z are false
- E. All of the above are true

Q. 25: 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

Q. 26: 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

Q. 27: Order numbers on a stock control system can range between 10000 and 99999 inclusive. Which of the following inputs might be a result of designing tests for only valid equivalence classes and valid boundaries:

- A. 1000, 5000, 99999
- B. 9999, 50000, 100000
- C. 10000, 50000, 99999
- D. 10000, 99999
- E. 9999, 10000, 50000, 99999, 10000

Q. 28: 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

Q. 29: Which expression best matches the following characteristics or review processes:

- 1. Led by author
- 2. Undocumented
- 3. No management participation
- 4. Led by a trained moderator or leader
- 5. Uses entry exit criteria

- s) Inspection
- t) Peer review
- u) Informal review
- v) Walkthrough

- A. s = 4, t = 3, u = 2 and 5, v = 1
- B. s = 4 and 5, t = 3, u = 2, v = 1
- C. s = 1 and 5, t = 3, u = 2, v = 4
- D. s = 5, t = 4, u = 3, v = 1 and 2
- E. s = 4 and 5, t = 1, u = 2, v = 3

Q. 30: Given the following:

Switch PC on
Start "outlook"
IF outlook appears THEN Send an email
Close outlook

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

E. 2 tests for statement coverage, 3 for branch coverage

Q. 31: Test managers should not:

- A. Report on deviations from the project plan
- B. Sign the system off for release
- C. Re-allocate resource to meet original plans
- D. Raise incidents on faults that they have found
- E. Provide information for risk analysis and quality improvement

Q. 32: Which of the following is NOT part of system testing:

- A. Business process-based testing
- B. Performance, load and stress testing
- C. Requirements-based testing
- D. Usability testing
- E. Top-down integration testing

Q. 33: When a new testing tool is purchased, it should be used first by:

- A. A small team to establish the best way to use the tool
- B. Everyone who may eventually have some use for the tool
- C. The independent testing team
- D. The managers to see what projects it should be used in
- E. The vendor contractor to write the initial scripts

Q. 34: Which of the following is not part of performance testing:

- A. Measuring response time
- B. Measuring transaction rates
- C. Recovery testing
- D. Simulating many users
- E. Generating many transactions

Q. 35: What is the purpose of test completion criteria in a test plan:

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

Q. 36: Given the following code, which is true:

IF A > B THEN C = A - B

ELSE

C = A + B ENDIF Read D

IF C = D Then Print "Error" ENDIF

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

Q. 37: Unreachable code would best be found using:

- A. Code reviews
- B. Code inspections
- C. A coverage tool

- D. A test management tool
- E. A static analysis tool

Q. 38: What information need not be included in a test incident report:

- A. How to fix the fault
- B. How to reproduce the fault
- C. Test environment details
- D. Severity, priority
- E. The actual and expected outcomes

Q. 39: Which of the following is NOT included in the Test Plan document of the Test Documentation Standard:

- A. Test items (i.e. software versions)
- B. What is not to be tested
- C. Test environments
- D. Quality plans
- E. Schedules and deadlines

Q. 40: IEEE 829 test plan documentation standard contains all of the following except:

- A. Test items
- B. Test deliverables
- C. Test tasks
- D. Test environment
- E. Test specification

Answers:

- Q.1-A
- Q.2-B
- Q.3-A
- Q.4-D
- Q.5-D
- Q.6-D
- Q.7-B
- Q.8-C
- Q.9-C
- Q.10-B
- Q.11-D
- Q.12-D
- Q.13-A
- Q.14-B
- Q.15-B
- Q.16-B
- Q.17-C
- Q.18-B
- Q.19-B
- Q.20-A
- Q.21-E
- Q.22-C
- Q.23-B
- Q.24-C
- Q.25-E
- Q.26-B
- Q.27-C
- Q.28-C
- Q.29-B
- Q.30-B

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Q.31-C
Q.32-E
Q.33-A
Q.34-C
Q.35-E
Q.36-B
Q.37-A
Q.38-A
Q.39-D
Q.40-E

ISTQB Foundation Sample Question Paper No. 21

Q. 1: Which of the following is NOT a black box technique:

- A. Equivalence partitioning
- B. State transition testing
- C. LCSAJ
- D. Syntax testing
- E. Boundary value analysis

Q. 2: Expected results are:

- A. Only important in system testing
- B. Only used in component testing
- C. Never specified in advance
- D. Most useful when specified in advance
- E. Derived from the code

Q. 3: Beta testing is:

- A. Performed by customers at their own site
- B. Performed by customers at their software developer's site
- C. Performed by an independent test team
- D. Useful to test bespoke software
- E. Performed as early as possible in the lifecycle

Q. 4: Consider the following:

Pick up and read the newspaper

Look at what is on television

If there is a program that you are interested in watching then switch the the television on and watch the program

Otherwise

Continue reading the newspaper

If there is a crossword in the newspaper then try and complete the crossword

- A. SC = 1 and DC = 1
- B. SC = 1 and DC = 2
- C. SC = 1 and DC = 3
- D. SC = 2 and DC = 2
- E. SC = 2 and DC = 3

Q. 5: A typical commercial test execution tool would be able to perform all of the following

EXCEPT:

- A. Generating expected outputs
- B. Replaying inputs according to a programmed script
- C. Comparison of expected outcomes with actual outcomes
- D. Recording test inputs
- E. Reading test values from a data file

Q. 6: Consider the following statements about early test design:

- i. Early test design can prevent fault multiplication
- ii. Faults found during early test design are more expensive to fix
- iii. Early test design can find faults
- iv. Early test design can cause changes to the requirements
- v. Early test design takes more effort

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

B. iii is true, I, ii, iv & v are false

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

Q. 7: 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. 8: 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. Analyse your needs and requirements
- D. Find out what your budget would be for the tool
- E. Search the internet

Q. 9: 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. 10: 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. 11: 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
- B. cCLASS
- C. CLass
- D. CLa01ss

Q. 12: 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. 13: Peer Reviews are also called as :

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

Q. 14: 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 obsoleteness.

- 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. 15: 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. 16: 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. 17: 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
- D. iv, ii is correct

Q. 18: 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. 19: 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. 20: 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. 21. 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 Analysis

Q. 22: The selection of a test approach should consider the context:

- i. Risk of Failure of the Project, hazards to the product and risks of product failure to humans
- ii. Skills and experience of the people in the proposed technique, tools and methods
- iii. The objective of the testing endeavor and the mission of the testing team.
- iv. The size of the testing Team

- A. i,ii,iii,iv are true
- B. i,ii,iii are true and iv is false.
- C. ii,iii,iv are true and i is false.
- D. i,iv are true and ii, iii are false.

Q. 23: Benefits of Independent Testing

- A. Independent testers are much more qualified than Developers
- B. Independent testers see other and different defects and are unbiased.
- C. Independent Testers cannot identify defects.
- D. Independent Testers can test better than developers

Q. 24: Minimum Test Required for Statement Coverage:

Disc = 0
Order-qty = 0
Read Order-qty
If Order-qty >=20 then

Disc = 0.05

If Order-qty >=100 then

Disc =0.1

End if

End if

- A. Statement coverage is 4
- B. Statement coverage is 1
- C. Statement coverage is 3
- D. Statement Coverage is 2

Q. 25: Test Conditions are derived from:

- A. Specifications
- B. Test Cases
- C. Test Data
- D. Test Design

Q. 26: Which of the following is the task of a Test Lead / Leader.

- i. Interaction with the Test Tool Vendor to identify best ways to leverage test tool on the project.
- ii. Write Test Summary Reports based on the information gathered during testing
- iii. Decide what should be automated , to what degree and how.
- 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. 27: Impact Analysis helps to decide:

- A. How much regression testing should be done.
- B. Exit Criteria
- C. How many more test cases need to written.
- D. Different Tools to perform Regression Testing

Q. 28: Drivers are also known as:

- i. Spade
- ii. Test harness
- iii. Scaffolding

- A. i , ii are true and iii is false
- B. i , iii are true and ii is false
- C. ii , iii are true and i is false
- D. All of the above are true

Q. 29: Which of the following is not a type of incremental testing approach?

- A. Top down
- B. Big-bang
- C. Bottom up
- D. Functional incrementation.

Q. 30: In a system designed to work out the tax to be paid:

An employee has £4000 of salary tax free. The next £1500 is taxed at 10% The next £28000 is taxed at 22% Any further amount is taxed at 40% Which of these groups of numbers would fall into the same equivalence class?

- A. £4800; £14000; £28000
- B. £5200; £5500; £28000
- C. £28001; £32000; £35000
- D. £5800; £28000; £32000

Q. 31: In case of Large Systems :

- A. Only few tests should be run
- B. Testing should be on the basis of Risk
- C. Only Good Test Cases should be executed.
- D. Test Cases written by good test engineers should be executed.

Q. 32: What is the expected result for each of the following test cases?

	Rule1	Rule2	Rule3	Rule4
Conditions				
Citibank Card				
Member	Yes	Yes	No	No
Type of Room	Silver	Platinum	Silver	Platinum
Actions				
Offer upgrade				
To Gold Luxury	Yes	No	No	No
Offer upgrade to Silver	N/A	Yes	N/A	No

- A. Citibank card member, holding a Silver room
- B. Non Citibank-member, holding a Platinum room
- A. A - Don't offer any upgrade, B - Don't offer any upgrade.
- B. A - Don't offer any upgrade, B - Offer upgrade to Gold.
- C. A - Offer upgrade to Silver, B - Offer upgrade to Silver.
- D. A - Offer upgrade to Gold, B - Don't offer any upgrade.

Q. 33: Which of the following is not phase of the Fundamental Test Process?

- A. Test Planning and Control
- B. Test implementation and Execution
- C. Requirement Analysis
- D. Evaluating Exit criteria and reporting

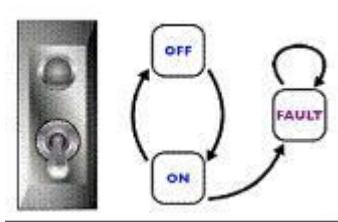
Q. 34: The structure of an incident report is covered in the Standard for Software Test Documentation IEEE 829 and is called as:

- A. Anomaly Report
- B. Defect Report
- C. Test Defect Report
- D. Test Incident Report

Q. 35: Repeated Testing of an already tested program, after modification, to discover any defects introduced or uncovered as a result of the changes in the software being tested or in another related or unrelated software component:

- A. Re Testing
- B. Confirmation Testing
- C. Regression Testing
- D. Negative Testing

Q. 36: Consider the following state transition diagram of a switch. Which of the following represents an invalid state transition?



- A. OFF to ON
- B. ON to OFF
- C. FAULT to ON

Q. 37: We use the output of the requirement analysis, the requirement specification as the input for writing:

- A. User Acceptance Test Cases
- B. Integration Level Test Cases
- C. Unit Level Test Cases
- D. Program specifications

Q. 38: Regression testing should be performed:

- i. Every week
- ii. After the software has changed
- iii. As often as possible
- iv. When the environment has changed
- v. When the project manager says

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

Q. 39: Evaluating testability of the requirements and system are a part of which phase:-

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

Q. 40: Which of the following has highest level of independence in which test cases are:

- A. Designed by persons who write the software under test
- B. Designed by a person from a different section
- C. Designed by a person from a different organization
- D. Designed by another person

Answers:

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

ISTQB Foundation Sample Question Paper No. 22

Q. 1: Test planning has which of the following major tasks?

- i. Determining the scope and risks, and identifying the objectives of testing.
- ii. Determining the test approach (techniques,test items, coverage, identifying and interfacing the teams involved in testing , testware)
- iii. Reviewing the Test Basis (such as requirements,architecture,design,interface)
- iv. Determining the exit criteria.

A. i,ii,iv are true and iii is false

B. i,,iv are true and ii is false

C. i,ii are true and iii,iv are false

D. ii,iii,iv are true and i is false

Q. 2: Deciding How much testing is enough should take into account :-

- i. Level of Risk including Technical and Business product and project risk
- ii. Project constraints such as time and budget
- iii. Size of Testing Team
- iv. Size of the Development Team

A. i,ii,iii are true and iv is false

B. i,,iv are true and ii is false

C. i,ii are true and iii,iv are false

D. ii,iii,iv are true and i is false

Q. 3: Which of the following will be the best definition for Testing:

A. The goal / purpose of testing is to demonstrate that the program works.

B. The purpose of testing is to demonstrate that the program is defect free.

C. The purpose of testing is to demonstrate that the program does what it is supposed to do.

D. Testing is executing Software for the purpose of finding defects.

Q. 4: Minimum Tests Required for Statement Coverage and Branch Coverage:

Read P Read Q

If p+q > 100 then

Print "Large" End if

If p > 50 then Print "pLarge" End if

A. Statement coverage is 2, Branch Coverage is 2

B. Statement coverage is 3 and branch coverage is 2

C. Statement coverage is 1 and branch coverage is 2

D. Statement Coverage is 4 and Branch coverage is 2

Q. 5: Match every stage of the software Development Life cycle with the Testing Life cycle:

i. Hi-level design a Unit tests ii. Code b Acceptance tests

iii. Low-level design c System tests

iv. Business requirements d Integration tests

A. i-d , ii-a , iii-c , iv-b

B. i-c , ii-d , iii-a , iv-b

C. i-b , ii-a , iii-d , iv-c

D. i-c , ii-a , iii-d , iv-b

Q. 6: Which of the following is a part of Test Closure Activities?

- i. Checking which planned deliverables have been delivered
- ii. Defect report analysis.
- iii. Finalizing and archiving testware.
- iv. Analyzing lessons.

A. i , ii , iv are true and iii is false

B. i , ii , iii are true and iv is false

C. i , iii , iv are true and ii is false

D. All of above are true

Q. 7: Which of the following is NOT part of a high level test plan?

- A. Functions not to be tested.
- B. Environmental requirements.
- C. Analysis of Specifications.
- D. Entry and Exit criteria.

Q. 8: If a candidate is given an exam of 40 questions, should get 25 marks to pass (61%) and should get 80% for distinction, what is equivalence class.

A. 23, 24, 25

B. 0, 12, 25

C. 30, 36, 39

D. 32,37,40

Q. 9: Which of the following statements is true of static analysis:

- A. Compiling code is not a form of static analysis.
- B. Static analysis need not be performed before imperative code is executed.
- C. Static analysis can find faults that are hard to find with dynamic testing.
- D. Extensive statistic analysis will not be needed if white- Box testing is to be performed.

Q. 10: In a system designed to work out the tax to be paid: An employee has \$4000 of salary tax free. The next \$1500 is taxed at 10% The next \$28000 is taxed at 22% Any further amount is taxed at 40% Which of these groups of numbers would fall into the same equivalence class?

A. \$5800; \$28000; \$32000

B. \$0; \$200; \$4200

C. \$5200; \$5500; \$28000

D. \$28001; \$32000; \$35000

Q. 11: Cost of the reviews will not include.

A. Review process itself

B. Metrics analysis

C. Tool support.

D. Process improvement.

Q. 12: Regression testing always involves

- A. Testing whether a known software fault been fixed.
- B. Executing a large number of different tests.
- C. Testing whether modifications have introduced adverse side effects.
- D. Using a test automation tool.

Q. 13: Capture and replay facilities are least likely to be used to _____

A. Performance testing

B. Recovery testing

C. GUI testing

D. User requirements.

Q. 14: Which tool will be used to test the flag memory leaks and unassigned pointers

- A. Dynamic analysis tool
- B. Static Analysis tool.
- C. Maintenance tool.
- D. Configuration tool.

Q. 15: Cyclomatic complexity is used to calculate

- A. Number of independent paths in the basis set of a program
- B. Number of binary decisions + 1
- C. Number bound for the number of tests that must be conducted to ensure that all statements have been executed at least once
- D. Number of branches and decisions

Q. 16: Which of the following is not included in Test Plan.

- A. Features to be tested.
- B. Environmental needs.
- C. Suspension criteria.
- D. Expected results.

Q. 17: Software quality is not relevant to _____

- A. Correctness
- B. Usability
- C. Viability
- D. Reusability.

Q. 18: Match the following:

- | | |
|---|--|
| 1. Test estimation | |
| 2. Test control | |
| 3. Test monitoring | |
| a. Measures of tracking process | |
| b. Effort required to perform activities | |
| c. Reallocation of resources | |

- A. 1-b, 2-c, 3-a
- B. 1-b, 2-a, 3-c
- C. 1-c, 2-a, 3-b
- D. 1-a, 2-b, 3-c

Q. 19: When do you stop testing?

- A. When the specified number of faults are found.
- B. When the test completion criteria are met.
- C. When all high and medium priority tests are complete.
- D. When all statements have been executed

Q. 20: What is the smallest number of test cases required to Provide 100% branch coverage?

```
If(x>y) x=x+1;  
else y=y+1;  
while(x>y)  
{  
y=x*y; x=x+1;  
}
```

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

D. 4

Q. 21: Match the following.

- 1. Configuration identification**
- 2. Configuration control**
- 3. Status reporting**
- 4. Configuration auditing**
- a. Maintains of CI's in a library**
- b. Checks on the contents of the library**
- c. Function recording and tracking problems.**
- d. Requires the all CI's and their versions in the system are known**

A. 1-d, 2-c, 3-d, 4-a. B. 1-d, 2-a, 3-c, 4-b. C. 1-a, 2-b, 3-d, 4-c. D. 1-c, 2-b, 3-a, 4-d.

Q. 22: Integration testing in the large involves:

- A. Testing the system when combined with other systems.
- B. Testing a sub-system using stubs and drivers.
- C. Testing a system with a large number of users.
- D. Combing software components and testing them in one go.

Q. 23: One of the following is not a part of white box testing as per BS7925-II standards.

- A. Random testing
- B. Data Flow testing.
- C. Statement testing.
- D. Syntax testing.

Q. 24: A piece of software has been given _____ what tests in the Following will you perform?

- 1) Test the areas most critical to business processes**
- 2) Test the areas where faults will be maximum**
- 3) Test the easiest functionalities**

- A. 1&2 are true and 3 is false.
- B. 1,2&3 are true.
- C. 1 is true, 2&3 are false.
- D. 1&2 are false, 3 is true

Q. 25: Which of the following is a type of non-functional testing?

- A. Usability testing.
- B. Statement Coverage.
- C. Dataflow testing.
- D. Cause-effect graphing.

Q. 26: What type of testing will you perform on internet banking solution?

- A. System integration
- B. Functional testing
- C. Non-functional testing.
- D. Requirements testing

Q. 27: Which of the following are false?

- A. Incidents should always be investigated and resolved.
- B. Incidents occur when expected and actual results differ.
- C. Incidents can be analyzed to assist in test process improvement.

D. An incident can be raised against documentation.

Q. 28: Testing is not done to _____

- A. Find faults
- B. Improve quality
- C. Check user friendliness.
- D. Improve software accuracy

Q. 29: A field failure occurs when multiple users access a system. Which of the following is true?

- A. This is an acceptable risk of a multi-user system.
- B. Insufficient functional testing has been performed.
- C. This indicates an important non-functional requirement was not specified and tested.
- D. It is not possible to test against such events prior to release.

Q. 30: People who don't participate in technical reviews

- A. Analysts
- B. Management
- C. Developers
- D. Testers

Q. 31: What is failure?

- A. Deviation from expected result to actual result
- B. Defect in the software.
- C. Error in the program code.
- D. Fault in the system.

Q. 32: Exclusive use of white box testing in a test-phase will:

- A. Ensure the test item is adequately tested.
- B. Make the need for black-box testing redundant.
- C. Run the risk that the requirements are not satisfied.
- D. Suffices for the unit testing phase.

Q. 33: Which of the following is least important in test management?

- A. Estimating test duration.
- B. Incident Management.
- C. Configuration Management.
- D. De-bugging.

Q. 34: A standard for software testing terminology is:

- A. IEEE 802.11
- B. ISO 9001
- C. BS 7925-1
- D. BS 7925-2

Q. 35: Which of the following is NOT a characteristic of User Acceptance Testing?

- A. Use of automated test execution tools.
- B. Testing performed by users.
- C. Testing against acceptance test criteria.
- D. Integration of system with user documentation.

Q. 36: Which of the following provides the biggest potential cost saving from use of CAST?

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

Q. 37: What type of testing is done to supplement the rigorous testing?

- A. Regression testing.
- B. Integration testing.
- C. Error Guessing
- D. System testing.

Q. 38: To make a test effective it is most important that:

- A. It is easy to execute.
- B. It is designed to detect faults if present.
- C. The expected outcome is specified before execution.
- D. It is unlikely to delay progress.

Q. 39: Error guessing is:

- A. An appropriate way of deriving system tests.
- B. Only used if good requirements are not available.
- C. Only used when good requirements are available.
- D. The most appropriate way of deriving system tests.

Q. 40: Amount of testing performed will not depend on

- A. Risks involved
- B. Contractual requirements
- C. Legal requirements
- D. Test data.

Answers:

- Q.1-A
- Q.2-C
- Q.3-D
- Q.4-C
- Q.5-D
- Q.6-C
- Q.7-C
- Q.8-D
- Q.9-A
- Q.10-A
- Q.11-C
- Q.12-C
- Q.13-D
- Q.14-A
- Q.15-B
- Q.16-D
- Q.17-C
- Q.18-A
- Q.19-B
- Q.20-B
- Q.21-B
- Q.22-A
- Q.23-D
- Q.24-A
- Q.25-A
- Q.26-C
- Q.27-C
- Q.28-D
- Q.29-C
- Q.30-B

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Q.31-A
Q.32-C
Q.33-D
Q.34-C
Q.35-A
Q.36-D
Q.37-C
Q.38-C
Q.39-D
Q.40-D

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ISTQB Foundation Sample Question Paper No. 23

Q. 1: For software to be reliable it must:

- A. Be easy to maintain.
- B. Be unlikely to cause a failure.
- C. Never fail under any circumstances.
- D. Be written according to coding standards

Q. 2: In a system designed to work out the tax to be paid: An employee has \$4000 of salary tax free. The next \$1500 is taxed at 10% The next \$28000 is taxed at 22% Any further amount is taxed at 40% To the nearest \$ which of these is a valid Boundary Value Analysis test case?

- A. \$1500
- B. \$32001
- C. \$28000
- D. \$33501

Q. 3: 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

Q. 4: An incident logging system

- A. Only records defects
- B. Is of limited value
- C. Is a valuable source of project information during testing if it contains all incidents
- D. Should be used only by the test team.

Q. 5: The later in the development life cycle a fault is discovered, the more expensive it is to fix.

Why?

- A. The documentation is poor, so it takes longer to find out what the software is doing.
- B. Wages are rising
- C. The fault has been built into more documentation, code, tests, etc.
- D. None of the above

Q. 6: Which of the following is true?

- A. Component testing should be black box, system testing should be white box.
- B. If you find a lot of bugs in testing, you should not be very confident about the quality of software
- C. The fewer bugs you find, the better your testing was
- D. The more tests you run, the more bugs you will find.

Q. 7: If the pseudo code below were a programming language ,how many tests are required to achieve 100% statement coverage?

1. If x=3 then
2. Display_messageX;
3. If y=2 then
4. Display_messageY;
5. Else
6. Display_messageZ;
7. Else
8. Display_messageZ;

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

D. 4

Q. 8: Software testing activities should start

- A. As soon as the code is written
- B. During the design stage
- C. When the requirements have been formally documented
- D. As soon as possible in the development life cycle

Q. 9: Using the same code example as question 17, how many tests are required to achieve 100% branch/decision coverage?

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

Q. 10: A test design technique is

- A. A process for selecting test cases
- B. A process for determining expected outputs
- C. A way to measure the quality of software
- D. A way to measure in a test plan what has to be done

Q. 11: What is the main reason for testing software before releasing it?

- A. To show that system will work after release
- B. To decide when the software is of sufficient quality to release
- C. To find as many bugs as possible before release
- D. To give information for a risk based decision about release

Q. 12: Testware(test cases, test dataset)

- A. Needs configuration management just like requirements, design and code
- B. Should be newly constructed for each new version of the software
- C. Is needed only until the software is released into production or use
- D. Does not need to be documented and commented, as it does not form part of the released software system

Q. 13: Which of the following is NOT a standard related to testing?

- A. IEEE829
- B. IEEE610
- C. BS7925-1
- D. BS7925-2

Q. 14: In which order should tests be run?

- A. The most important tests first
- B. The most difficult tests first(to allow maximum time for fixing)
- C. The easiest tests first (to give initial confidence)
- D. The order they are thought of

Q. 15: A program validates a numeric field as follows:

Values less than 10 are rejected, values between 10 and 21 are accepted, values greater than or equal to 22 are rejected. Which of the following covers the MOST boundary values?

- A. 9,10,11,22
- B. 9,10,21,22
- C. 10,11,21,22
- D. 10,11,20,21

Q. 16: Which of the following is not the integration strategy?

- A. Design based

- B. Big-bang
- C. Bottom-up
- D. Top-down

Q. 17: Which of the following tools would you use to detect a memory leak?

- A. State analysis
- B. Coverage analysis
- C. Dynamic analysis
- D. Memory analysis

Q. 18: Which of the following statements are true?

- A. Faults in program specifications are the most expensive to fix.
- B. Faults in code are the most expensive to fix.
- C. Faults in requirements are the most expensive to fix
- D. Faults in designs are the most expensive to fix.

Q. 19: Increasing the quality of the software, by better development methods, will affect the time needed for testing (the test phases) by:

- A. Reducing test time
- B. No change
- C. Increasing test time
- D. Can't say

Q. 20: Which of the following is a black box design technique?

- A. Statement testing
- B. Equivalence partitioning
- C. Error- guessing
- D. Usability testing

Q. 21: When reporting faults found to developers, testers should be:

- A. As polite, constructive and helpful as possible
- B. Firm about insisting that a bug is not a "feature" if it should be fixed
- C. Diplomatic, sensitive to the way they may react to criticism
- D. All of the above

Q. 22: Which of the following statements is not true

- A. Performance testing can be done during unit testing as well as during the testing of whole system
- B. The acceptance test does not necessarily include a regression test
- C. Verification activities should not involve testers (reviews, inspections etc)
- D. Test environments should be as similar to production environments as possible

Q. 23: What is the important criterion in deciding what testing technique to use?

- A. How well you know a particular technique
- B. The objective of the test
- C. How appropriate the technique is for testing the application
- D. Whether there is a tool to support the technique

Q. 24: When should you stop testing?

- A. When time for testing has run out.
- B. When all planned tests have been run
- C. When the test completion criteria have been met
- D. When no faults have been found by the tests run

Q. 25: Coverage measurement

- A. Is nothing to do with testing
- B. Is a partial measure of test thoroughness
- C. Branch coverage should be mandatory for all software

D. Can only be applied at unit or module testing, not at system testing

Q. 26: Which of the following is NOT a type of non-functional test?

- A. State-Transition
- B. Usability
- C. Performance
- D. Security

Q. 27: Which of the following is the component test standard?

- A. IEEE 829
- B. IEEE 610
- C. BS7925-1
- D. BS7925-2

Q. 28: A program validates a numeric field as follows:

Values less than 10 are rejected, values between 10 and 21 are accepted, values greater than or equal to 22 are rejected. Which of the following input values cover all of the equivalence partitions?

- A. 10,11,21
- B. 3,20,21
- C. 3,10,22
- D. 10,21,22

Q. 29: Which is not true-The black box tester

- A. Should be able to understand a functional specification or requirements document
- B. Should be able to understand the source code.
- C. Is highly motivated to find faults
- D. Is creative to find the system's weaknesses

Q. 30: Which of the following is a static test?

- A. Code inspection
- B. Coverage analysis
- C. Usability assessment
- D. Installation test

Q. 31: A program with high cyclometric complexity is almost likely to be:

- A. Large
- B. Small
- C. Difficult to write
- D. Difficult to test

Q. 32: Which of the following is the odd one out?

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

Q. 33: Which of the following techniques are black box techniques?

- A. State transition testing, code testing, agile testing
- B. Equivalence partitioning, state transition testing, decision table testing
- C. System testing, acceptance testing, equivalence partitioning
- D. System integration testing, system testing, decision table testing

Q. 34: A number of critical bugs are fixed in software. All the bugs are in one module, related to reports. The test manager decides to do regression testing only on the reports module.

- A. The test manager should do only automated regression testing.

- B. The test manager is justified in her decision because no bug has been fixed in other modules
- C. The test manager should only do confirmation testing. There is no need to do regression testing
- D. Regression testing should be done on other modules as well because fixing one module may affect other modules

Q. 35: Which of the following statements contains a valid goal for a functional test set?

- A. A goal is that no more failures will result from the remaining defects
- B. A goal is to find as many failures as possible so that the cause of the failures can be identified and fixed
- C. A goal is to eliminate as much as possible the causes of defects
- D. A goal is to fulfil all requirements for testing that are defined in the project plan.

Q. 36: What makes an inspection different from other review types?

- A. It is led by a trained leader, uses formal entry and exit criteria and checklists
- B. It is led by the author of the document to be inspected
- C. It can only be used for reviewing design and code
- D. It is led by the author, uses checklists, and collects data for improvement

Q. 37: Why does the boundary value analysis provide good test cases?

- A. Because it is an industry standard
- B. Because errors are frequently made during programming of the different cases near the ‘edges’ of the range of values
- C. Because only equivalence classes that are equal from a functional point of view are considered in the test cases
- D. Because the test object is tested under maximal load up to its performance limits

Q. 38: If a program is tested and 100% branch coverage is achieved, which of the following coverage criteria is then guaranteed to be achieved?

- A. 100% Equivalence class coverage
- B. 100% Condition coverage and 100% Statement coverage
- C. 100% Statement coverage
- D. 100% Multiple condition coverage

Q. 39: A defect management system shall keep track of the status of every defect registered and enforce the rules about changing these states. If your task is to test the status tracking, which method would be best?

- A. Logic-based testing
- B. Use-case-based testing
- C. State transition testing
- D. Systematic testing according to the V-model

Q. 40: In system testing...

- A. Both functional and non-functional requirements are to be tested
- B. Only functional requirements are tested; non-functional requirements are validated in a review
- C. Only non-functional requirements are tested; functional requirements are validated in a review
- D. Only requirements which are listed in the specification document are to be tested

Answers:

- Q.1-B
- Q.2-D
- Q.3-B
- Q.4-C
- Q.5-C
- Q.6-B

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Q.7-C
Q.8-D
Q.9-C
Q.10-A
Q.11-D
Q.12-A
Q.13-B
Q.14-A
Q.15-B
Q.16-A
Q.17-C
Q.18-C
Q.19-A
Q.20-B
Q.21-D
Q.22-C
Q.23-B
Q.24-C
Q.25-B
Q.26-A
Q.27-D
Q.28-C
Q.29-B
Q.30-A
Q.31-D
Q.32-D
Q.33-B
Q.34-D
Q.35-B
Q.36-A
Q.37-B
Q.38-B
Q.39-C
Q.40-A

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ISTQB Foundation Sample Question Paper No. 24

Q. 1: Integration testing has following characteristics

- I. It can be done in incremental manner
 - II. It is always done after system testing
 - III. It includes functional tests
 - IV. It includes non-functional tests
-
- A. I, II and III are correct
 - B. I is correct
 - C. I, III and IV are correct

Q. 2: Which of the following activities differentiate a walkthrough from a formal review?

- A. A walkthrough does not follow a defined process
- B. For a walkthrough individual preparation by the reviewers is optional
- C. A walkthrough requires meeting
- D. A walkthrough finds the causes of failures, while formal review finds the failures

Q. 3: Why is testing necessary?

- A. Because testing is good method to make there are not defects in the software
- B. Because verification and validation are not enough to get to know the quality of the software
- C. Because testing measures the quality of the software system and helps to increase the quality
- D. Because testing finds more defects than reviews and inspections.
- E. I, II and IV are correct

Q. 4: 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. 5: 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. 6: This part of a program is given:

WHILE (condition A)

Do B

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. 7: 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. 8: 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. 9: 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. 10: 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. 11: 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. 12: 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. 13: 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.
- 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. 14: 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. 15: 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. 16: 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. 17: 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. 18: 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. 19: The following list contains risks that have been identified for a software product to be developed. Which of these risks is an example of a product risk?

- A. Not enough qualified testers to complete the planned tests
- B. Software delivery is behind schedule
- C. Threat to a patient's life
- D. 3rd party supplier does not supply as stipulated

Q. 20: Which of the following statements is correct?

- A. Static analysis tools produce statistics during program execution
- B. Configuration management systems allow us to provide accurate defect statistics of different configurations
- C. Stress testing tools examine the behavior of the test object at or beyond full load
- D. Performance measurement tools can be used in all phases of software life-cycle

Q. 21: Which of the following project inputs influence testing?

- (I) Contractual requirements
- (II) Legal requirements
- (III) Industry standards

- (IV) Application risk

- (V) Project size

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

Q. 22: A test engineer is testing a Video Player (VCR), and logs the following report:

Title: Fast Forward stops after 2 minutes. It happens every time
Expected result: Fast forward continues till the end of the tape
Severity: High

Priority: Urgent

What important information did the engineer leave out?

- A. Identification (Software and hardware) of the VCR
- B. Actual result
- C. History of the report
- D. Ideas for the test case improvement

Q. 23: Maintenance testing is:

- A. Testing management
- B. Synonym of testing the quality of service
- C. Triggered by modifications, migration or retirement of existing software
- D. Testing the level of maintenance by the vendor

Q. 24: Why is incremental integration preferred over "big bang" integration?

- A. Because incremental integration has better early defects screening and isolation ability
- B. Because "big bang" integration is suitable only for real time applications
- C. Incremental integration is preferred over "Big Bang Integration" only for "bottom up" development model
- D. Because incremental integration can compensate for weak and inadequate component testing

Q. 25: V-Model is:

- A. A software development model that illustrates how testing activities integrate with software development phases
- B. A software life-cycle model that is not relevant for testing
- C. The official software development and testing life-cycle model of ISTQB
- D. A testing life cycle model including unit, integration, system and acceptance phases

Q. 26: Which of the following items need not to be given in an incident report?

- A. The version number of the test object
- B. Test data and used environment
- C. Identification of the test case that failed
- D. The location and instructions on how to correct the fault

Q. 27: Test data planning essentially includes

- A. Network
- B. Operational Model
- C. Boundary value analysis
- D. Test Procedure Planning

Q. 28: Acceptance testing means

- A. Testing performed on a single stand - alone module or unit of code
- B. Testing after changes have been made to ensure that no unwanted changes were introduced
- C. Testing to ensure that the system meets the needs of the organization and end user.
- D. Users test the application in the developers environment

Q. 29: The _____ testing should include operational tests of the new environment as well as of the changed software

- A. System Testing
- B. Integration testing
- C. Component testing

D. Maintenance testing

Q. 30: A risk-based approach to testing provides proactive opportunities to reduce the levels of product risk, starting in the initial stages of a project

- A. True
- B. False

Q. 31: Functional testing is mostly

- A. Validation techniques
- B. Verification techniques
- C. Both of the above
- D. None of the above

Q. 32: Branch Coverage

- A. Another name for decision coverage
- B. Another name for all-edges coverage
- C. Another name for basic path coverage
- D. All the above

Q. 33: The _____ Is the activity where general testing objectives are transformed into tangible test conditions and test designs

- A. Testing Planning
- B. Test Control
- C. Test analysis and design
- D. Test implementation

Q. 34: Integration testing where no incremental testing takes place prior to all the system's components being combined to form the system.

- A. System testing
- B. Component Testing
- C. Incremental Testing
- D. Big bang testing

Q. 35: A test case design technique for a component in which test cases are designed to execute statements is called as?

- A. State transition Testing
- B. Static Testing
- C. Transition testing
- D. Statement testing

Q. 36: Who should have technical and Business background.

- A. Moderator
- B. Author
- C. Reviewer
- D. Recorder

Q. 37: A test plan defines

- A. What is selected for testing
- B. Objectives and results
- C. Expected results
- D. Targets and misses

Q. 38: Component integration testing can be done

- A. Before Integration testing
- B. After unit testing
- C. After component testing

D. After system testing

Q. 39: Test basis documentation is analyzed in which phase of testing

- A. Test Analysis
- B. Test Design
- C. Test Execution
- D. Test Planning

Q. 40: Which one is not the task of test leader?

- A. Coordinate the test strategy and plan with project managers and others
- B. Decide about the implementation of the test environment
- C. Write test summary reports
- D. Review and contribute to test plans

Answers:

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

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ISTQB Foundation Sample Question Paper No. 25

Q. 1: if (condition1 && (condition2 function1()))

statement1;

else statement2;

A. Decision coverage

B. Condition coverage

C. Statement coverage

D. Path Coverage

Q. 2: _____ reviews are often held with just the programmer who wrote the code and one or two other programmers or testers.

A. Formal Reviews

B. Peer Reviews

C. Semi-Formal Reviews

D. All of the above

Q. 3: In _____ testing test cases i.e input to the software are created based on the specifications languages

A. State Transition Testing

B. Random Testing

C. Syntax Testing

D. Penetration testing

Q. 4: White Box Testing

A. Same as glass box testing

B. Same as clear box testing

C. Both A. and B.

D. None of the above.

Q. 5: Verification activities during design stages are

A. Reviewing and Inspecting

B. Inspecting and Testing

C. Reviewing and Testing

D. Reviewing, Inspecting and Testing.

Q. 6: Equivalence partitioning consists of various activities:

A. Ensure that test cases test each input and output equivalence class at least once

B. Identify all inputs and all outputs

C. Identify equivalence classes for each input

D. All of the above

Q. 7: Static Analysis

A. Same as static testing

B. Done by the developers

C. Both A. and B

D. None of the above

Q. 8: Size of a project is defined in terms of all the following except

A. Person days

B. Person hours

C. Calendar months

D. None of the above

Q. 9: Testing responsibilities:

Tester 1 - Verify that the program is able to display images clearly on all 10 of the monitors in the

lab

Tester 2 - Make sure the program instructions are easy to use Security concerns are important for which type of applications

Tester 3 - Verify that the calculation module works correctly by using both scripts and ad hoc testing. Which term is used to refer to the testing that is performed by

Tester 3 in the above scenario?

- A. Unit testing
- B. Algorithm specific testing
- C. Compatibility testing
- D. Black box testing

Q. 10: Objective of review meeting is

- A. To identify problems with design
- B. To solve the problems with design
- C. Both A. and B
- D. None of the above.

Q. 11: QC is

- A. Phase building activity
- B. Intermediate activity
- C. End of Phase activity
- D. Design activity

Q. 12: Which tool store information about versions and builds of software and testware

- A. Test Management tool
- B. Requirements management tool
- C. Configuration management tool
- D. Static analysis too;

Q. 13: Testing Process comprised of

- A. Test Plan and Test Cases
- B. Test log and Test Status
- C. Defect Tracking
- D. All of the above

Q. 14: Preparing and automating test cases before coding is called

- A. Test first approach
- B. Test-driven development
- C. Both A. & B.
- D. None of the above

Q. 15: Which one is not characteristic of test management tool?

- A. Support for the management of tests and the testing activities carried out
- B. Interfaces to test execution tools
- C. Quantitative analysis related to tests
- D. Check for consistency and undefined requirements
- E. None of the above

Q. 16: Code Walkthrough

- A. Type of dynamic testing
- B. Type of static testing
- C. Neither dynamic nor static
- D. Performed by the testing team

Q. 17: Risk analysis talks about

- A. The data required for testing, the infrastructure requirements to manage the data as well as the

methods for preparing test data, requirements, converters and sources

- B. Details what types of tests must be conducted, what stages of testing are required and outlines the sequence and timing of tests
- C. A testing goal. It is a statement of what the tester is expected to accomplish or validate during a testing activity. These guide the development of test cases and procedures
- D. None of the above

Q. 18: What are the 2 major components taken into consideration with risk analysis?

- A. The probability the negative event will occur
- B. The potential loss or impact associated with the event
- C. Both A. and B.
- D. Neither A. nor B.

Q. 19: If the application is complex, but NOT data intensive and is to be tested on one configuration and 2 rounds, the easiest method to test is

- A. Manual testing
- B. Automation testing
- C. Both
- D. None

Q. 20: Functional tests can be performed at all test levels

- A. True
- B. False

Q. 21: Structural Testing

- A. Same as black box testing
- B. Same as white box testing
- C. Same as functional testing
- D. None of the above.

Q. 22: In formal review, Rework: fixing defects found typically done by _____

- A. Moderator
- B. Author
- C. Reviewer
- D. Recorder

Q. 23: The _____ may facilitate the testing of components or part of a system by simulation the environment in which the test object will run

- A. Test Design tool
- B. Test data preparation tool
- C. Test execution tool
- D. Test harness
- E. None of the above

Q. 24: Regression testing mainly helps in

- A. Re-testing fixed defects
- B. Checking for side-effects of fixes
- C. Checking the core gaps
- D. Ensuring high level sanity

Q. 25: Review is one of the methods of V&V. The other methods are

- A. Inspection
- B. Walkthrough
- C. Testing
- D. All of the above

Q. 26: Which review is inexpensive

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

Q. 27: Following are some of the testing risks

- A. Budget, Test environment
- B. Budget, Number of qualified test resources
- C. Budget, Number of qualified test resources, Test environment
- D. None of the above

Q. 28: Random Testing

- A. Program is tested randomly sampling the input.
- B. A black-box testing technique
- C. Both A. and B.
- D. None of the above.

Q. 29: Black-box testing technique is also called as structure based technique

- A. True
- B. False

Q. 30: Reliability, usability, efficiency are

- A. Functional characteristics
- B. Nonfunctional characteristics
- C. Both A. & B.
- D. None of the above

Q. 31: Test Plan

- A. Road map for testing
- B. Tells about the actual results and expected results
- C. Both a and b
- D. None of the above

Q. 32: User Acceptance Testing

- A. Same as Alpha Testing
- B. Same as Beta Testing
- C. Combination of Alpha and Beta Testing
- D. None of the above

Q. 33: Path coverage includes

- A. Statement coverage
- B. Condition coverage
- C. Decision coverage
- D. None of these

Q. 34: Which testing technique do you prefer for the following situations?

1. Severe time pressure
 2. Inadequate specification
- A. Decision testing
 - B. Error guessing
 - C. Statement testing
 - D. Exploratory testing

Q. 35: Recovery testing is a system test that forces the software to fail and verifies that data

recovery is properly performed. The following should be checked for correctness

1. Re-initialization
 2. Restart
 3. Data Recovery
 4. Check Point Mechanism
- A. 1 and 2
B. 1, 2 and 3
C. 1, 2, 3 and 4
D. 2 and 4

Q. 36: Data flow analysis studies:

- A. Possible communications bottlenecks in a program.
- B. The rate of change of data values as a program executes.
- C. The use of data on paths through the code.
- D. The intrinsic complexity of the code.

Q. 37: Which of the following is NOT a white box technique?

- A. Statement testing
- B. Path testing
- C. Data flow testing
- D. State transition testing

Q. 38: Which one of the following describes the major benefit of verification early in the life cycle?

- A. It allows the identification of changes in user requirements.
- B. It facilitates timely set up of the test environment.
- C. It reduces defect multiplication.
- D. It allows testers to become involved early in the project.

Q. 39: Which of the following is false?

- A. In a system two different failures may have different severities.
- B. A system is necessarily more reliable after debugging for the removal of a fault.
- C. A fault need not affect the reliability of a system.
- D. Undetected errors may lead to faults and eventually to incorrect behavior.

Q. 40: Alpha testing is:

- A. Post-release testing by end user representatives at the developer's site.
- B. The first testing that is performed.
- C. Pre-release testing by end user representatives at the developer's site.
- D. Pre-release testing by end user representatives at their sites.

Answer:

- Q.1-B
- Q.2-B
- Q.3-C
- Q.4-A
- Q.5-A
- Q.6-A
- Q.7-C
- Q.8-C
- Q.9-D
- Q.10-C
- Q.11-C
- Q.12-C
- Q.13-D
- Q.14-C

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Q.15-D
Q.16-B
Q.17-B
Q.18-C
Q.19-A
Q.20-A
Q.21-B
Q.22-B
Q.23-D
Q.24-B
Q.25-D
Q.26-A
Q.27-B
Q.28-A
Q.29-B
Q.30-B
Q.31-A
Q.32-C
Q.33-D
Q.34-D
Q.35-C
Q.36-C
Q.37-D
Q.38-C
Q.39-B
Q.40-C

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ISTQB Foundation Sample Question Paper No. 26

Q. 1: We split testing into distinct stages primarily because:

- A. Each test stage has a different purpose.
- B. It is easier to manage testing in stages.
- C. We can run different tests in different environments.
- D. The more stages we have, the better the testing.

Q. 2: Which of the following would NOT normally form part of a test plan?

- A. Features to be tested
- B. Incident reports
- C. Risks
- D. Schedule

Q. 3: Which of the following is a form of functional testing?

- A. Boundary value analysis
- B. Usability testing
- C. Performance testing
- D. Security testing

Q. 4: Which one of the following statements about system testing is NOT true?

- A. System tests are often performed by independent teams.
- B. Functional testing is used more than structural testing.
- C. Faults found during system tests can be very expensive to fix.
- D. End-users should be involved in system tests.

Q. 5: Which of the following is not described in a unit test standard?

- A. Syntax testing
- B. Equivalence partitioning
- C. Stress testing
- D. Modified condition/decision coverage

Q. 6: Which of the following is likely to benefit most from the use of test tools providing test capture and replay facilities?

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

Q. 7: Which of the following is false?

- A. Incidents should always be fixed.
- B. An incident occurs when expected and actual results differ.
- C. Incidents can be analysed to assist in test process improvement.
- D. An incident can be raised against documentation.

Q. 8: Static analysis is best described as:

- A. The analysis of batch programs.
- B. The reviewing of test plans.
- C. The analysis of program code.
- D. The use of black box testing.

Q. 9: Which of the following statements is NOT correct?

- A. A minimal test set that achieves 100% LCSAJ coverage will also achieve 100% branch coverage.
- B. A minimal test set that achieves 100% path coverage will also achieve 100% statement coverage.
- C. A minimal test set that achieves 100% path coverage will generally detect more faults than one that achieves 100% statement coverage.

D. A minimal test set that achieves 100% statement coverage will generally detect more faults than one that achieves 100% branch coverage.

Q. 10: Which of the following statements about reviews is true?

- A. Reviews cannot be performed on user requirements specifications.
- B. Reviews are the least effective way of testing code.
- C. Reviews are unlikely to find faults in test plans.
- D. Reviews should be performed on specifications, code, and test plans.

Q. 11: What is the main difference between a walkthrough and an inspection?

- A. An inspection is lead by the author, whilst a walkthrough is lead by a trained moderator.
- B. An inspection has a trained leader, whilst a walkthrough has no leader.
- C. Authors are not present during inspections, whilst they are during walkthroughs.
- D. A walkthrough is lead by the author, whilst an inspection is lead by a trained moderator.

Q. 12: Which of these activities provides the biggest potential cost saving from the use of CAST?

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

Q. 13: Which of the following is NOT true of incidents?

- A. Incident resolution is the responsibility of the author of the software under test.
- B. Incidents may be raised against user requirements.
- C. Incidents require investigation and/or correction.
- D. Incidents are raised when expected and actual results differ.

Q. 14: Which of the following characterizes the cost of faults?

- A. They are cheapest to find in the early development phases and the most expensive to fix in the latest test phases.
- B. They are easiest to find during system testing but the most expensive to fix then.
- C. Faults are cheapest to find in the early development phases but the most expensive to fix then.
- D. Although faults are most expensive to find during early development phases, they are cheapest to fix then.

Q. 15: Which one of the following statements, about capture-replay tools, is NOT correct?

- A. They are used to support multi-user testing.
- B. They are used to capture and animate user requirements.
- C. They are the most frequently purchased types of CAST tool.
- D. They capture aspects of user behaviour.

Q. 16: Which of the following is true of the V-model?

- A. It states that modules are tested against user requirements.
- B. It only models the testing phase.
- C. It specifies the test techniques to be used.
- D. It includes the verification of designs.

Q. 17: Error guessing:

- A. Supplements formal test design techniques.
- B. Can only be used in component, integration and system testing.
- C. Is only performed in user acceptance testing.
- D. Is not repeatable and should not be used.

Q. 18: In a system designed to work out the tax to be paid:

An employee has £4000 of salary tax free. The next £1500 is taxed at 10% The next £28000 is

taxed at 22%

Any further amount is taxed at 40%

Which of these groups of numbers would fall into the same equivalence class?

- A. £4800; £14000; £28000
- B. £5200; £5500; £28000
- C. £28001; £32000; £35000
- D. £5800; £28000; £32000

Q. 19: The oracle assumption:

- A. Is that there is some existing system against which test output may be checked.
- B. Is that the tester can routinely identify the correct outcome of a test.
- C. Is that the tester knows everything about the software under test.
- D. Is that the tests are reviewed by experienced testers.

Q. 20: In prioritising what to test, the most important objective is to:

- A. Find as many faults as possible.
- B. Test high risk areas.
- C. Obtain good test coverage.
- D. Test whatever is easiest to test.

Q. 21: The most important thing about early test design is that it:

- A. Makes test preparation easier.
- B. Means inspections are not required.
- C. Can prevent fault multiplication.
- D. Will find all faults.

Q. 22: A configuration management system would NOT normally provide:

- A. Linkage of customer requirements to version numbers.
- B. Facilities to compare test results with expected results.
- C. The precise differences in versions of software component source code.
- D. Restricted access to the source code library.

Q. 23: Integration testing in the small:

- A. Tests the individual components that have been developed.
- B. Tests interactions between modules or subsystems.
- C. Only uses components that form part of the live system.
- D. Tests interfaces to other systems.

Q. 24: Which of the following requirements is testable?

- A. The system shall be user friendly.
- B. The safety-critical parts of the system shall contain 0 faults.
- C. The response time shall be less than one second for the specified design load.
- D. The system shall be built to be portable.

Q. 25: An important benefit of code inspections is that they:

- A. Enable the code to be tested before the execution environment is ready.
- B. Can be performed by the person who wrote the code.
- C. Can be performed by inexperienced staff.
- D. Are cheap to perform.

Q. 26: Test cases are designed during:

- A. Test recording.
- B. Test planning.
- C. Test configuration.
- D. Test specification.

Q. 27: A failure is:

- A. Found in the software; the result of an error.
- B. Departure from specified behaviour.
- C. An incorrect step, process or data definition in a computer program.
- D. A human action that produces an incorrect result.

Q. 28: How would you estimate the amount of re-testing likely to be required?

- A. Metrics from previous similar projects
- B. Discussions with the development team
- C. Time allocated for regression testing
- D. A. & B.

Q. 29: Given the following sets of test management terms (v-z), and activity descriptions (1-5), which one of the following best pairs the two sets?

- v - Test control
- w - Test monitoring
- x - Test estimation
- y - Incident management
- z - Configuration control

- 1 - Calculation of required test resources
- 2 - Maintenance of record of test results
- 3 - Re-allocation of resources when tests overrun
- 4 - Report on deviation from test plan
- 5 - Tracking of anomalous test results

- A. v-3,w-2,x-1,y-5,z-4
- B. v-2,w-5,x-1,y-4,z-3
- C. v-3,w-4,x-1,y-5,z-2
- D. v-2,w-1,x-4,y-3,z-5

Q. 30: In a system designed to work out the tax to be paid:

An employee has £4000 of salary tax free. The next £1500 is taxed at 10% The next £28000 is taxed at 22% Any further amount is taxed at 40% To the nearest whole pound, which of these is a valid Boundary Value Analysis test case?

- A. £1500
- B. £32001
- C. £33501
- D. £28000

Q. 31: Which of the following is NOT true of test coverage criteria?

- A. Test coverage criteria can be measured in terms of items exercised by a test suite.
- B. A measure of test coverage criteria is the percentage of user requirements covered.
- C. A measure of test coverage criteria is the percentage of faults found.
- D. Test coverage criteria are often used when specifying test completion criteria.

Q. 32: Analyze the following highly simplified procedure:

Ask: "What type of ticket do you require, single or return?" IF the customer wants 'return'

Ask: "What rate, Standard or Cheap-day?"

IF the customer replies 'Cheap-day'

Say: "That will be £11:20" ELSE

Say: "That will be £19:50" ENDIF

ELSE

Say: "That will be £9:75" ENDIF

Now decide the minimum number of tests that are needed to ensure that all the questions have

been asked, all combinations have occurred and all replies given.

- A. 3
- B. 4
- C. 5
- D. 6

Q. 33: Which of the following should NOT normally be an objective for a test?

- A. To find faults in the software.
- B. To assess whether the software is ready for release.
- C. To demonstrate that the software doesn't work.
- D. To prove that the software is correct.

Q. 34: Enough testing has been performed when:

- A. Time runs out.
- B. The required level of confidence has been achieved.
- C. No more faults are found.
- D. The users won't find any serious faults.

Q. 35: Which of the following is the best source of Expected Outcomes for User Acceptance Test scripts?

- A. Actual results
- B. Program specification
- C. User requirements
- D. System specification

Q. 36: Which of the following are disadvantages of capturing tests by recording the actions of a manual tester?

- i The script may be unstable when unexpected events occur.
 - ii Data for a number of similar tests is automatically stored separately from the script.
 - iii Expected results must be added to the captured script.
 - iv The captured script documents the exact inputs entered by the tester.
 - v When replaying a captured test, the tester may need to debug the script if it doesn't play correctly.
- A. i, iii, iv, v.
 - B. ii, iv and v.
 - C. i, ii and iv.
 - D. i and v.

Q. 37: Which of the following is a characteristic of good testing in any life cycle model?

- A. All document reviews involve the development team.
- B. Some, but not all, development activities have corresponding test activities.
- C. Each test level has test objectives specific to that level.
- D. Analysis and design of tests begins as soon as development is complete.

Q. 38: The process of designing test cases consists of the following activities:

- i. Elaborate and describe test cases in detail by using test design techniques.
 - ii. Specify the order of test case execution.
 - iii. Analyse requirements and specifications to determine test conditions.
 - iv. Specify expected results.
- According to the process of identifying and designing tests, what is the correct order of these activities?

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

D. ii, iii, i, iv.

Q. 39: Which is the MOST important advantage of independence in testing?

- A. An independent tester may find defects more quickly than the person who wrote the software.
- B. An independent tester may be more focused on showing how the software works than the person who wrote the software.
- C. An independent tester may be more effective and efficient because they are less familiar with the software than the person who wrote it.
- D. An independent tester may be more effective at finding defects missed by the person who wrote the software.

Q. 40: Given the following specification, which of the following values for age are in the SAME equivalence partition?

If you are less than 18, you are too young to be insured. Between 18 and 30 inclusive, you will receive a 20% discount. Anyone over 30 is not eligible for a discount.

- A. 17, 18, 19.
- B. 29, 30, 31.
- C. 18, 29, 30.
- D. 17, 29, 31.

Answers:

- Q.1-A
- Q.2-B
- Q.3-A
- Q.4-D
- Q.5-C
- Q.6-A
- Q.7-C
- Q.8-C
- Q.9-D
- Q.10-D
- Q.11-D
- Q.12-C
- Q.13-B
- Q.14-A
- Q.15-D
- Q.16-D
- Q.17-A
- Q.18-D
- Q.19-B
- Q.20-B
- Q.21-C
- Q.22-B
- Q.23-B
- Q.24-C
- Q.25-A
- Q.26-D
- Q.27-B
- Q.28-D
- Q.29-C
- Q.30-C
- Q.31-C
- Q.32-A
- Q.33-D
- Q.34-B
- Q.35-C

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Q.36-A
Q.37-C
Q.38-A
Q.39-D
Q.40-C

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ISTQB Foundation Sample Question Paper No. 27

Q. 1: Consider the following statements:

- i. 100% statement coverage guarantees 100% branch coverage.
 - ii. 100% branch coverage guarantees 100% statement coverage.
 - iii. 100% branch coverage guarantees 100% decision coverage.
 - iv. 100% decision coverage guarantees 100% branch coverage.
 - v. 100% statement coverage guarantees 100% decision coverage.
- A. ii is True; i, iii, iv & v are False
B. i & v are True; ii, iii & iv are False
C. ii & iii are True; i, iv & v are False
D. ii, iii & iv are True; i & v are False

Q. 2: What is the difference between a project risk and a product risk?

- A. Project risks are potential failure areas in the software or system; product risks are risks that surround the project's capability to deliver its objectives.
- B. Project risks are the risks that surround the project's capability to deliver its objectives; product risks are potential failure areas in the software or system.
- C. Project risks are typically related to supplier issues, organizational factors and technical issues; product risks are typically related to skill and staff shortages.
- D. Project risks are risks that delivered software will not work; product risks are typically related to supplier issues, organizational factors and technical issues.

Q. 3: During which fundamental test process activity do we determine if MORE tests are needed?

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

Q. 4: What is the MAIN purpose of a Master Test Plan?

- A. To communicate how incidents will be managed.
- B. To communicate how testing will be performed.
- C. To produce a test schedule.
- D. To produce a work breakdown structure.

Q. 5: Which of the following defines the sequence in which tests should be executed?

- A. Test plan.
- B. Test procedure specification.
- C. Test case specification.
- D. Test design specification.

Q. 6: Which of the following is a major task of test planning?

- A. Determining the test approach.
- B. Preparing test specifications.
- C. Evaluating exit criteria and reporting.
- D. Measuring and analyzing results.

Q. 7: What is the main purpose of impact analysis for testers?

- A. To determine the programming effort needed to make the changes.
- B. To determine what proportion of the changes need to be tested.
- C. To determine how much the planned changes will affect users.
- D. To determine how the existing system may be affected by changes.

Q. 8: In a system designed to work out the tax to be paid:

An employee has £4000 of salary tax free. The next £1500 is taxed at 10%.

The next £28000 after that is taxed at 22%.

Any further amount is taxed at 40%. To the nearest whole pound, which of these is a valid Boundary Value Analysis test case?

- A. £28000.
- B. £33501.
- C. £32001.
- D. £1500.

Q. 9: Which of the following tools is most likely to contain a comparator?

- A. Dynamic Analysis tool.
- B. Test Execution tool.
- C. Static Analysis tool.
- D. Security tool.

Q. 10: When software reliability measures are used to determine when to stop testing, the best types of test cases to use are those that

- A. Exercise system functions in proportion to the frequency they will be used in the released product
- B. Push the system beyond its designed operation limits and are likely to make the system fail
- C. Exercise unusual and obscure scenarios that may not have been considered in design
- D. Exercise the most complicated and the most error-prone portions of the system

11. Load Testing Tools

- a) reduces the time spent by the testers
- b) reduces the resources spent (hardware)
- c) mostly used in web testing
- d) all of the above

12. Test coverage analysis is the process of

- a) Creating additional test cases to increase coverage
- b) Finding areas of program exercised by the test cases
- c) Determining a quantitative measure of code coverage, which is a direct measure of quality.
- d) All of the above.

13. Critical in Web Testing

- a) Performance and Functionality
- b) Functionality and usability
- c) Usability and Performance
- d) None of the above

14. Class testing

- a) require a driver to test
- b) no need of instances of other classes
- c) no need to test the transitions
- d) all of the above.

15. Defect Tracking

- a) is the communication channel between test team and development team
- b) is the communication channel between testing team and the rest of the team
- c) is the communication channel between the testing team and end users
- d) all of the above

16. Essential Testing Skills are

- a) Test Planning, Risk Management, Tool Usage, Test Execution, Defect Management
- b) Test Planning, Tool Usage, Test Execution, Defect Management, Test Measurement
- c) Test Planning, Tool Usage, Test Execution, Defect Management

d) Test Planning, Tool Usage, Test Execution, Defect Management, Test Case Design

17. Testing across different languages is called

- a) Linguistic Testing
- b) Localization Testing
- c) Both a and b
- d) None of the above.

18. Hierarchical System

- a) several levels of component that includes objects and classes
- b) several levels of component that includes objects, classes, systems
- c) several levels of component that includes, foundation component, systems
- d) none of the above.

19. Hybrid Testing

- a) combination of one or more testing techniques
- b) Combination of top-down and bottom-up testing
- c) Both a and b
- d) None of the above.

20. White Box Testing

- a) same as glass box testing
- b) same as clear box testing
- c) both a and b
- d) none of the above.

21. Build Verification Test

- a) same as smoke test
- b) done after each build to make sure that the build doesn't contain major errors
- c) both a and b
- d) None of the above.

22. Content Testing

- a) similar to proof reading
- b) widely used in web testing
- c) part of usability testing
- d) All of the above.

23. Decision Coverage.

- a) Testing Boolean expressions which are not in control structures.
- b) entire expression is considered as boolean expression irrespective of logical-and and logical-or operators
- c) coverage except switch-statement cases, exception handlers
- d) all of the above.

24. Branch Coverage (Testing concepts)

- a) another name for decision coverage
- b) another name for all-edges coverage
- c) another name for basic path coverage
- d) all the above

25. The following example is a

```
if (condition1 && (condition2 || function1()))
statement1;
else
```

statement2; (Testing concepts)

- a) Decision coverage
- b) Condition coverage
- c) Statement coverage
- d) Path Coverage

26. Test cases need to be written for

- a) invalid and unexpected conditions
- b) valid and expected conditions
- c) both a and b
- d) none of these

27. Desk Checking

- a) same as code walkthrough
- b) same as code inspection
- c) verification of code by the developers
- d) none of the above.

28. Path coverage includes

- a) statement coverage
- b) condition coverage
- c) decision coverage
- d) none of these

29. Tools usage

- a) very helpful in regression testing
- b) saves time
- c) helpful in simulating Users
- d) all the above

30. Which is a true prevention mechanism

- a) verifying that the executable contains a defect
- b) detecting that the executable contains a defect
- c) validating that the specified requirements are right, complete, achievable, reasonable, testable.
- D) verifying that the specified requirements are right, complete, achievable, reasonable, testable

31. Objective of review meetings is

- a) to identify problems with design
- b) to solve the problems with design
- c) both a and b
- d) none of the above.

32. The benefits of glass box testing are

- a) Focused Testing, Testing coverage, control flow
- b) Data integrity, Internal boundaries, algorithm specific testing
- c) Both a and b
- d) Either a or b

33. Structural Testing

- a) same as black box testing
- b) same as white box testing
- c) same as functional testing
- d) none of the above.

34. Characteristics of a good test

- a) reasonable probability of catching an error and can be redundant
- b) it is not simple or too complex
- c) reasonable probability of catching an error and cannot be redundant
- d) it is either too simple or too complex.

35. Find the Equivalence class for the following test case

Enter a number to test the validity of being accepting the numbers between 1 and 99

- a) All numbers < 1
- b) All numbers > 99
- c) Number = 0
- d) All numbers between 1 and 99

36. Find the invalid equivalence class for the following test case

Draw a line up to the length of 4 inches

- a) Line with 1 dot-width
- b) Curve
- c) line with 4 inches
- d) none of the above.

37. Testing user documentation involves

- a) Improved usability, reliability, maintainability
- b) Install-ability, scalability, liability
- c) Both a and b
- d) None of the above.

38. Sources of regression test cases are

- a) boundary tests and other preplanned tests.
- b) Tests that reveal bugs in the program
- c) Customer reported bugs
- d) All of the above

39. Identify which one is an internal failure

- a) Delaying tester's access to areas of the code
- b) Replacement with updated product
- c) Training programmers to make or miss fewer bugs
- d) Testing by Tech. Support

40. Identify which one is a load condition

- a) Lost messages
- b) Task starts before its prerequisites are met.
- c) Lost or out of sync messages
- d) Early end of string

Answers:

- Q.1-D
- Q.2-B
- Q.3-B
- Q.4-B
- Q.5-B
- Q.6-A
- Q.7-D
- Q.8-B
- Q.9-B
- Q.10-A

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Q.11-D
Q.12-A
Q.13-C
Q.14-A
Q.15-D
Q.16-C
Q.17-B
Q.18-D
Q.19-B
Q.20-C
Q.21-C
Q.22-D
Q.23-B
Q.24-D
Q.25-A
Q.26-C
Q.27-C
Q.28-C
Q.29-D
Q.30-D
Q.31-A
Q.32-C
Q.33-B
Q.34-C
Q.35-D
Q.36-B
Q.37-C
Q.38-D
Q.39-A
Q.40-A

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ISTQB Foundation Sample Question Paper No. 28

1. System Testing team is responsible for

- a) Performing the data validations
- b) Performing the Usability Testing
- c) Performing the Beta Testing
- d) None of the above

2. Testing Process comprised of

- a) Test Plan and Test Cases
- b) Test log and Test Status
- c) Defect Tracking
- d) All of the above

3. Localisation Testing

- a) Testing performed for local functions
- b) Testing across different languages
- c) Testing across different locations
- d) None of the above

4. Object Oriented Testing

- a) Same as Top-Down Testing
- b) Same as Bottom-Up Testing
- c) Same as Hybrid Testing
- d) All of the above

5. Smoke Testing

- a) To find whether the hardware burns out
- b) Same as build verification test
- c) To find that software is stable
- d) None of the above

6. Test Plan

- a) Road map for testing
- b) Tells about the actual results and expected results
- c) Both a and b
- d) None of the above

7. Test Script

- a) written version of test cases
- b) Code used in manual testing
- c) Always used when we use tools
- d) A code segment to replace the test case

8. Test Procedure

- a) collection of test plans
- b) combination of test plan and test cases

- c) collection of test cases
- d) none of the above

9.Code Walkthrough

- a) a type of dynamic testing
- b) type of static testing
- c) neither dynamic nor static
- d) performed by the testing team

10.Static Analysis

- a) same as static testing
- b) done by the developers
- c) both a and b
- d) none of the above

11.User Acceptance Testing

- a) same as Alpha Testing
- b) same as Beta Testing
- c) combination of Alpha and Beta Testing
- d) none of the above

12.State which of the one is false

- a) In performance testing, usage of tool is a must
- b) In database testing, database knowledge is a must.
- c) In Functional Testing, knowledge of business logic is a must
- d) none of the above.

13.State which one is true. Collection of testing metrics contributes

- a) in the improvement of testing
- b) Affects tester's growth.
- c) Used against a developer
- d) none

14.Random Testing

- a) Program is tested randomly sampling the input.
- b) A black-box testing technique
- c) Both a and b
- d) None of the above.

15.Error seeding

- a) Evaluates the thoroughness with which a computer program is tested by purposely inserting errors into a supposedly correct program.
- b) Errors inserted by the developers intentionally to make the system malfunctioning.
- c) Neither a or b
- d) Both a and b

16. Metrics collected during testing includes

- a) System test cases planned/executed/passed
- b) Discrepancies reported/resolved
- c) Staff hours
- d) All of the above

17. Manual Testing

- a) at least performed one time
- b) need to be executed before going for automation
- c) both a and b
- d) neither a or b

18. What is the use of Affinity Diagram?

- a) A group process that takes large amount of language data such as a list developed by brainstorming and divides it into categories
- b) A test or analysis conducted after an application is moved into production to determine whether it is likely to meet the originating business case.
- c) A test method that requires that each possible branch on each decision point be executed at least once.
- d) None of the above

19. The following best describes the defect density:

- a) ratio of failure reports received per unit of time.
- b) ratio of discovered errors per size of code.
- c) number of modifications made per size of code.
- d) number of failures reported against the code.

20. Which of the following technique is the most suitable for negative testing

- a) Boundary value analysis
- b) Internal value analysis
- c) State transition testing
- d) All of the above

21. Unit, Integration and System testing being replaced by _____ using object oriented software testing concepts

- a) classing testing, Object Integration testing, System testing
- b) Statement coverage, Branch coverage , Condition coverage
- c) All of the above
- d) None of the above

22. What is the relationship between equivalence partitioning and boundary value analysis techniques

- a) Structural testing
- b) Opaque testing
- c) Compatibility testing
- d) All of the above

23. Which statement is relevant for test driver (Testing concepts)

- a) A program that directs the execution of another program against a collection of test data sets. Usually the test driver also records and organizes the output generated as the tests are run.
- b) A document that identifies test items and includes current status and location information.
- c) A document describing any event during the testing process that requires investigation
- d) A software item that is an object of testing.

24. Which of the following best describes validation (Testing concepts)

- a) Determination of the correctness of the final program or software produced from a development project with respect to the user needs and requirements.
- b) A document that describes testing activities and results and evaluates the corresponding test items
- c) Test data that lie within the domain of the function represented by the program
- d) All of the above

25. Coverage based analysis is best described as: (Test artifacts)

- a) A metric used to show the logic covered during a test session providing insight to the extent of testing.
- b) A tool for documenting the unique combinations of conditions and associated results in order to derive unique test cases for validation testing.
- c) Tools for documenting defects as they are found during testing and for tracking their status through to resolution.
- d) The most traditional means for analyzing a system or a program

26.Which of the following best describes the difference between clear box and opaque box?

Clear box is structural testing, opaque box is functional testing

Clear box is done by tester, and opaque box is done by developer

Ad-hoc testing is a type of opaque box testing

- a) 1 only
- b) 1 and 3
- c) 2
- d) 3

27. How do you test a module for integration?

- a) Big bang approach
- b) Pareto analysis
- c) Cause and Effect diagram
- d) Scatter diagram

28. 80:20 rule can also called as

- a) a Fish bone diagram
- b) bPareto analysis
- c) cScatter diagram
- d) dHistogram

29.Suggest an alternative for requirement traceability matrix

- a) a.Test Coverage matrix
- b) b.Average defect aging
- c) c.Test Effectiveness
- d) d.Error discovery rate

30.What can be done to minimize the reoccurrence of defects

- a) a.Defect Prevention plan
- b) b.Defect tracking
- c) c.Defect Management
- d) d.All of the above

31.Review is one of the methods of V&V. The other methods are

- a) Inspection
- b) Walkthrough
- c) Testing
- d) All of the above

**32. What needs to be done when there is an insufficient time for testing
(Test Mgmt)**

- 1)Do Ad-hoc testing
 - 2)Do usability testing
 - 3)Do sanity testing
 - 4)Do a risk based analysis to prioritize
- a) 1 and 2
 - b) 3 & 4
 - c) All of the above
 - d) None of the above

**33. What is the scenario in which automation testing can be done:
(Automation)**

- Application is stable
 - Usability testing is to be done
 - The project is short term
 - Long term project having numerous releases
- a) 1
 - b) 1 & 4
 - c) 1 & 2
 - d) 2 & 3

34. Choose the best match for cyclomatic complexity (Test Execution)

- a) The number of decision statements plus one.
- b) A set of Boolean conditions such that complete test sets for the conditions uncover the same errors
- c) The process of analyzing and correcting syntactic logic and other errors identified during testing
- d) None of the above

35. According to Crosby, it is less costly to (Quality)

- a) let the customer find the defects.
- b) detect defects than to prevent them.
- c) prevent defects than to detect them.
- d) ignore minor defects

36. Which of the following is LEAST likely to be used during software maintenance?

- a) Project management plan
- b) Customer support hot line
- c) Software problem reports
- d) Change control board

37.Which of the following reviews are required in order to ensure proper tracking of software between phases of a project?

- 1. Product feasibility
 - 2. Software requirements
 - 3. Software design
 - 4. Acceptance test
- a) I and II only
 - b) II and III only
 - c) I, II, and III only
 - d) II, III, and IV only

38.How can it be known when to stop testing?

- a) When no more bugs can be found
- b) When the time allocated is over
- c) When the quality goals set up for testing have been achieved
- d) All of the above

39.What can be done if requirements are changing continuously?

- a) Work with the project's stakeholders early on to understand how requirements might change so that alternate test plans and strategies can be worked out in advance, if possible.
- b) Negotiate to allow only easily-implemented new requirements into the project, while moving more difficult new requirements into future versions of the application
- c) Both a and b
- d) None of the above

40.The goal of software testing is to

- a) Debug the system
- b) Validate that the system behaves as expected
- c) Let the developer know the defects injected by him
- d) Execute the program with the intent of finding errors

Answers:

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

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Q.39-C

Q.40-B

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ISTQB Foundation Sample Question Paper No. 29

1. A test plan defines

- a) What is selected for testing
- b) Objectives and results
- c) Expected results
- d) Targets and misses

2. Test planning should begin

- a) At the same time that requirement definitions begins
- b) When building starts
- c) When code build is complete
- d) After shipping the first version

3. Risk analysis talks about

- a) The data required for testing, the infrastructure requirements to manage the data as well as the methods for preparing test data, requirements, converters and sources
- b) Details what types of tests must be conducted, what stages of testing are required and outlines the sequence and timing of tests
- c) A testing goal. It is a statement of what the tester is expected to accomplish or validate during a testing activity. These guide the development of test cases and procedures
- d) None of the above

4. The following defines the statement of what the tester is expected to accomplish or validate during testing activity

- a) Test scope
- b) Test objective
- c) Test environment
- d) None of the above

5. One technique of Black Box testing is Equivalence Partitioning. In a program statement that accepts only one choice from among 10 possible choices, numbered 1 through 10, the middle partition would be from _____ to _____

-
- a) 4 to 6
 - b) 0 to 10
 - c) 1 to 10
 - d) None of the above

6. What are the 2 major components taken into consideration with risk analysis?

- a) The probability the negative event will occur
- b) The potential loss of impact associated with the event
- c) Both a and b
- d) Neither a nor b

7. Following are some of the testing tasks

- a) Budget, Test environment
- b) Budget, Number of qualified test resources
- c) Budget, Number of qualified test resources, Test environment
- d) None of the above

8. Cost of quality is

- a) Prevention costs
- b) Appraisal costs
- c) Failure costs
- d) All of the above

9. Which of the following metrics involves defects reported by client

- a) Test efficiency
- b) Test effectiveness
- c) Test Coverage
- d) None of the above

10. Security concerns are important for which type of applications.

- a) A product advertisement website
- b) A requirements tracking database
- c) An e-commerce website
- d) An employment application

11. Testing responsiveness

Tester 1- Verify that the program is able to display images clearly on all 10 of the monitors in the tab

Tester 2- Make sure the program instructions are easy to use Security concerns are important for which type of applications.

Tester 3 – Verify that the calculation module works correctly by using both scripts and ad hoc testing. Which term is used to refer to the testing that is performed by

Tester 3 in the above scenario?

- a) Unit testing
- b) Algorithm specific testing
- c) Compatibility testing
- d) Black box testing

12. As a tester, what is your main objective in reviewing a requirement document?

- a) To ascertain that each requirement is traceable to a business need
- b) To ascertain that each requirement is both testable and uniquely identifiable
- c) To ascertain that each requirement is traceable to a business need, testable, and uniquely identifiable
- d) To ascertain that each requirement is uniquely identifiable

13.What is the common limitation of automated testing?

- a) They are not useful for performance testing
- b) They cannot be used for requirement validation
- c) It is very difficult for automated scripts to verify a wide range of application responses.
- d) They are not useful when requirements are changing frequently

14.Formal testing guidelines suggest which one of the following as the correct source of functional test cases?

- a) The developer's knowledge of what the software can do
- b) The software design
- c) The software requirements
- d) The tester's knowledge of what the software should do
- e) The functional test procedures

15.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) Desk checking
- b) Debugging a program
- c) A mutation error
- d) Performance testing
- e) Introducing mutations

16.Test effort estimation uses which of the following techniques

- a) Function point method
- b) Test case point method
- c) Use case point method
- d) All of the above

17.What is the verification process in software development?

- a) The probability that undesirable things will happen such as loss of human life or large financial losses
- b) The process of monitoring the software to ensure full compliance with established standards and procedures
- c) The process of trying to discover every conceivable fault or weakness in a work product.
- d) The process of evaluating a system or component to determine whether or not the products of a given development phase satisfy the conditions imposed at the start of that phase
- e) The process of evaluating a system or component during or at the end of the sales process to determine whether or not it satisfies specified requirements

18.From a testing perspective, what results in the clicking of a button?

- a) An interface event
- b) A sound
- c) A text item

- d) A bio-metric event
- e) An internal processing event

19. Testing design mainly emphasizes all the following except

- a) Data planning
- b) Test procedures planning
- c) Mapping the data and test cases
- d) Data synchronisation

20. Which type of testing is performed to test applications across different browsers and OS?

- a) Static testing
- b) Performance testing
- c) Compatibility testing
- d) Functional testing

21. Which document helps you to track test coverage?

- a) Traceability Matrix
- b) Test plan
- c) Test log
- d) Test summary report

22. Which type of test would you perform to accept a build

- a) Beta test
- b) Smoke test
- c) Functional test
- d) User acceptance test

23. Detecting a defect at which of the following stage is most economical?

- a) Design
- b) Build
- c) Testing
- d) Deployment

24. If the application is complex, but NOT data intensive and is to be tested on one configuration and 2 rounds, the easiest method to test is

- a) Manual testing
- b) Automation testing
- c) Both
- d) None

25. Functional testing is mostly

- a) Validation techniques
- b) Verification techniques
- c) Both of the above
- d) None of the above

26.Most imprecise definition for quality is

- a) Fitness for use
- b) Meeting customers expectations
- c) Completeness of requirements
- d) Efficient and effective product

27.System testing include all the following except

- a) Performance services
- b) Security services
- c) Usability services
- d) Monitoring services

28.Function points are used for estimating

- a) Size
- b) Effort
- c) Cost
- d) None of the above

29.Size of a project is defined in terms of all the following except

- a) Person days
- b) Person hours
- c) Calendar months
- d) None of the above

30.Deliverable of test design phase include all of the following except

- a) Test data
- b) Test data plan
- c) Test summary report
- d) Test procedure plan

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

- a) Schedules and deliverable
- b) Hardware and software
- c) Entry and exit criteria
- d) Types of test case

32.Compatibility testing for products involves all the following except

- a) Certified and supported client environments
- b) High and low level sanity testing
- c) Client and server side testing
- d) Functional and non-functional compatibility

33.Evaluating business importance and testing the core business cases in an application is called

- a) Risk based testing
- b) High level sanity testing

- c) Low level sanity testing
- d) Regression testing

34. Regression testing mainly helps in

- a) Retesting fixed defects
- b) Checking for side-effects of fixes
- c) Checking the core gaps
- d) Ensuring high level sanity

35. Load testing emphasizes on performance under load while stress testing emphasizes on

- a) Breaking load
- b) performance under stress
- c) Performance under load
- d) There is no such difference, both are same

36. Which of the following is not a form of performance testing?

- a) Spike testing
- b) Volume testing
- c) Transaction testing
- d) Endurance testing

37. Which of the following is not a type of test under phases in testing life cycle?

- a) Integration test
- b) Load test
- c) User Acceptance test
- d) Beta test

38. Test efficiency is always directly proportional to

- a) Product Delivery
- b) Functional Coverage
- c) Product Reliability
- d) Product Cost

39. Per economics of testing – optimum test is suggested because

- a) Number of defects decrease along with extent of testing
- b) Number of defects increase along with extent of testing
- c) Cost of testing increases with the extent of testing
- d) Cost of testing increases with the number of defects

40. In a V-model of software testing, UAT plans are prepared during the

- a) Analysis phase
- b) HLD phase
- c) LLD phase
- d) System Testing phase

Answers:

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

ISTQB Foundation Sample Question Paper No. 30

1.Verification performed without any executable code is referred to as

- a) Review
- b) Static testing
- c) Validation
- d) Sanity testing

2.If Quality Control and Quality Assurance are compared

- a) Both are literally the same
- b) QA is a higher activity in the management Hierarchy
- c) QC ia a higher activity in the management Hierarchy
- d) QA is done by the client and QC si done by the software vendor

3.The extent of automation for a given project is generally guided by

- a) Scope for automation
- b) Tool support
- c) Business Functionality
- d) Vendor's skills

4.Test data planning essentially includes

- a) Network
- b) Operational Model
- c) Boundary value analysis
- d) Test Procedure Planning

5.Which of the following is not a client side statistics in load testing

- a) Hits per second
- b) Throughput
- c) Cache hit ratio
- d) Transaction per second

6.Feasibility study is more imoprtant before load testing

- a) Web Applications
- b) Client-server applications
- c) Mainframe applications
- d) Citrix applications

7.Which one of the following need not be part of the bug tracker?

- a) Bug identifier
- b) One line bug description
- c) Severity of the bug
- d) None of the above

8.Which of the following approach needs to be taken if there are a large number of defects being found in the software?

1. Try continuing testing and logging the critical defects.
 2. Immediately stop testing the product.
 3. Inform the lead/manager providing proper documentation
 4. Continue testing in the normal manner
- a) 1 and 3
 - b) 3 and 4
 - c) 2 only
 - d) 3 only

9.What if the application has functionality that wasn't in the requirements?

- a) Ignore testing that functionality
- b) Continue to test the functionality and report the results
- c) Update the Project Manager with the details and the risk involved
- d) None of the above

10.What are the key features to be concentrated upon when doing a testing for world wide web sites

- a) Interaction between html pages
- b) Performance on the client side
- c) Security aspects
- d) All of the above

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

- a) Use risk based analysis to find out which areas need to be tested
- b) Use automation tool for testing
- c) a and b
- d) None of the above

12.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

13.What are the main attributes of test automation

1. Time saving
 2. Correctness
 3. Less Manpower
 4. More reliable
- a) 1 and 2
 - b) 2 and 3
 - c) 1, 2 , 3 and 4
 - d) None of the above

14.Some of the common problems of test automation are

- a) Changing requirements

- b) Lack of time
- c) Both a and b
- d) None of the above

15. Some of the metrics which are collected in a testing project are

- Productivity**
 - Test effectiveness**
 - Requirement stability**
 - Bug fix rate**
- a) 1 and 2
 - b) 2 and 3
 - c) 1,2, and 4
 - d) 1 and 4

16. Test Suit Manager

- a) A tool that specifies an order of actions that should be performed during a test session
- b) A software package that creates test transactions for testing application systems and programs
- c) A tool that allows testers to recognize test script by function or other grouping
- d) None of the above

17. Baseline means

- a) A single software product that may or may not fully support a business function
- b) A quantitative measure of the current level of performance
- c) A test or analysis conducted after an application is moved into production
- d) None of the above

18. A document describing any event during the testing process that requires investigation

- a) Test log
- b) Test Incident report
- c) Test Cycle
- d) Test Item

19. The purpose of this event is to review the application user interface and other human factors of the application with the people who will be using the application.

- a) User Acceptance test
- b) Usability test
- c) Validation
- d) None of the above

20. What is used to measure the characteristics of the documentation and code?

- a) Process metrics
- b) Product metrics

- c) Software Quality metrics
- d) None of the above

21. Use of an executable model to represent the behavior of an object is called

- a) Simulation
- b) Software item
- c) Software feature
- d) None of the above

22. Benchmarking is

- a) Comparing your company's products services or processes against best practices or competitive practices to help define superior performance of a product service or support process.
- b) A quantitative measure of the current level of performance
- c) A test or analysis conducted after an application is moved into production
- d) None of the above

23. Recovery testing is a system test that forces the software to fail and verifies that data recovery is properly performed.

The following should be checked for correctness

- 1. Re-initialization
 - 2. Restart
 - 3. Data Recovery
 - 4. Check Point Mechanism
- a) 1 and 2
 - b) 1, 2 and 3
 - c) 1, 2, 3 and 4
 - d) 2 and 4

24. UAT is different from other testing types normally because of

- a) Data
- b) Cycles
- c) Defects
- d) None of the above

25. Alpha testing is differentiated from Beta testing by

- a) The location where the tests are conducted.
- b) The types of test conducted
- c) The people doing the testing
- d) The degree to which white box techniques are used

26. What is the need for test planning

- a) to utilize a balance of testing techniques
- b) to understand testing process
- c) to collect metrics
- d) to perform ad hoc testing.

27. Which of the following is NOT a part of Test plan document?

- a. assumptions
- b) communication approach
- c) risk analysis
- d) status report

28. Which part of Test plan will define 'What will and will not be covered in the test'?

- a) test scop
- b) test objective
- c) both a & b
- d) none of the above

29. Test objective is simply a testing

- a) direction
- b) vision
- c) mission
- d) goal

30. Which out of the below is NOT a concern for testers to complete a test plan

- a) not enough training
- b) lack of test tools
- c) enough time for testing
- d) rapid change

31. The effort taken to create a test plan shoule be

- a) half of the total test effort
- b) one-third of the total test efforts
- c) two times of the total test effort
- d) one-fifth of the total test effort

32. What do you mean by 'Having to say NO'

- a) No, the problem is not with testers
- b) No, the software is not ready for production
- c) Both a and b
- d) none of the above

33. 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

34. In Life cycle approach to testing, test execution occurs

- a) during testing phase

- b) during requirement phase
- c) during coding phase
- d) none of the above

35. Who is responsible for conducting test readiness review?

- a. Test manager
- b. Test engineer
- c. both A & B
- d. Project Manager

36. What is NOT a test log?

- a. Maps the test results to requirements
- b. Records test activities
- c. Maintains control over the test
- d. Contains pass or fail results.

37. When Integration testing should begin

- a. during black-box testing
- b. once unit testing is complete for the integrating components
- c. Before unit testing is complete
- d. All of the above

38. Which is NOT a part of integration testing

- a. Validation of the links between the clients and server
- b. Output interface file accuracy
- c. back-out situations
- d. none of the above.

39. When to stop testing?

- a. When all quality goals defined at the start of the project have been met.
- b. When running short of time
- c. When all test cases are executed
- d. all the above

40. Authorization _____

- a. compliance testing
- b. disaster testing
- c. verifying compliance to rules
- d. functional testing
- e. ease of operations

Answers:

- Q.1-B
- Q.2-C
- Q.3-A

Q.4-C
Q.5-C
Q.6-A
Q.7-D
Q.8-A
Q.9-C
Q.10-D
Q.11-A
Q.12-D
Q.13-C
Q.14-C
Q.15-C
Q.16-C
Q.17-B
Q.18-B
Q.19-B
Q.20-B
Q.21-A
Q.22-A
Q.23-C
Q.24-A
Q.25-A
Q.26-A
Q.27-D
Q.28-A
Q.29-D
Q.30-C
Q.31-B
Q.32-B
Q.33-C
Q.34-D
Q.35-A
Q.36-A
Q.37-B
Q.38-D
Q.39-A
Q.40-C

ISTQB Foundation Sample Question Paper No. 31

1. File Integrity falls under

- a. compliance testing
- b. disaster testing
- c. verifying compliance to rules
- d. functional testing
- e. ease of operations

2. Operations testing is

- a. compliance testing
- b. disaster testing
- c. verifying compliance to rules
- d. functional testing
- e. ease of operations

3. Security falls under

- a. compliance testing
- b. disaster testing
- c. verifying compliance to rules
- d. functional testing
- e. ease of operations

4. Portability falls under

- a. compliance testing
- b. disaster testing
- c. verifying compliance to rules
- d. functional testing
- e. ease of operations

5. What are the four attributes to be present in any test problem?

- a. statement, criteria, effect and cause
- b. priority, fix, schedule and report
- c. statement, fix effect and report
- d. none of the above

6. Which is not the Phase of SDLC?

- a. Initiation Phase
- b. Definition Phase
- c. Planning Phase
- d. Programming and Training Phase

7. Comparison of the expected benefit versus the cost of the solution is done in which phase of SDLC?

- a. Definition Phase
- b. Design Phase

- b. Initiation Phase
- d. Implementation Phase

8. Who is the policy/oversight participant in SDLC?

- a. Project Manager
- b. Contracting Office
- c. Information Technology Manager
- d. Information Resources Management Official

9. Who reviews proposed procurement for sufficiency in the acquisition and installation of the Off-the-Shelf Software?

- a. Sponsor / User
- b. Project Manager
- c. IT Manager
- d. All of the Above

10. “V” testing process is

- a. System development process and system test process begins
- b. Testing starts after coding is done
- c. Do procedures are followed by Check procedures
- d. Testing starts after the prototype is done

11. Validation is

- a. Execute test
- b. Review code
- c. Desk check
- d. Audit

12. 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

13. Structural testing is

- a. Requirements are properly satisfied by the application
- b. Uncover errors during “Coding” of the program
- c. Functions works properly
- d. To test how the business requirements are implemented.

14. Functional testing is

- a. Path testing
- b. Technology has been used properly
- c. Uncover errors that occurs in implementing requirements.
- d. Uncover errors in program unit.

15. Structural testing is NOT

- a. Installation testing
- b. Stress testing
- c. Recovery testing
- d. Compliance testing

16. Stress testing transaction can be obtained from

- a. Test Data generators
- b. Test transactions created by the test group
- c. Transactions previously processed in the production environment
- d. All of the above.

17. Who will assess vulnerability in the system

- a. Internal Control Officer
- b. System Security Officer
- c. QA Engineer
- d. Test Manager

18. What is the structure testing process

- a. Parallel
- b. Regression
- c. Stress
- d. Intersystem

19. What is Risk analysis?

- a. Evaluating risks
- b. Evaluating Controls
- c. Evaluating vulnerabilities
- d. All of the above

20. Major component of Risk Analysis are

- a. The probability that the negative event will occur
- b. The potential loss is very high
- c. The potential loss or impact associated with the event

21. Method of conducting Risk Analysis is

- a. Use your judgment
- b. Use your instinct
- c. Cost of failure
- d. All of the above

22. Which is not Testing Risk

- a. Budget
- b. Number of qualified test resources
- c. Sequence and increments of code delivery
- d. Inadequately tested applications

23. If abnormal termination type X occurs 100 times per year, and the loss per occurrence is \$500, then the loss associated with the risk is \$50,000. What methods of measuring the magnitude of risk I am using?

- a. Judgment
- b. Annual loss expectation estimation
- c. Risk Formula
- d. Consensus

24. What is Cascading error?

- a. Unrelated errors
- b. Triggers a second unrelated error in another part
- c. A functionality could not be tested
- d. Two similar errors

25. Configuration defects will be introduced if

- a. Environment is not stable
- b. Environment does not mirror test environment
- c. Environment does not mirror production environment
- d. All of the above

26. Quality Risk is

- a. Requirement comply with methodology
- b. Incorrect result will be produced
- c. Result of the system are unreliable
- d. Complex technology used.

27. Risk control objectives are established in

- a. Design phase
- b. Requirement Phase
- c. Testing Phase
- d. Implementation Phase

28. Which of the following is not Risk characteristic

- a. Inherent in every project
- b. Neither intrinsically good nor bad
- c. Something to fear but not something to manage
- d. Probability of loss

29. Application developed should fit user's business process. The components of fit are

- a. Data
- b. People
- c. Structure
- d. All of the above

30. Which is not the responsibility of customer/ user of the software

- a. Plan how and by whom each acceptance activity will be performed
- b. Prepare the acceptance plan
- c. Prepare resource plan
- d. Plan resources for providing information on which to base acceptance decisions

31. In preparation for developing the acceptance criteria, the user should

- a. Know the defects in the application
- b. Acquire the basic knowledge of the application for which the system is intended
- c. Understand the risks and benefits of the development methodology that is to be used in correcting the software system
- d. Know new enhancement and basic understanding of how the application is implemented in users organization

32. Acceptance requirements that a system should meet is

- a. Usability
- b. Understandablity
- c. Functionality
- d. Enhancements

33. Testing techniques that can be used in acceptance testing are

- a. Structural
- b. Functional
- c. Usability
- d. A and B
- e. B and C

34. For final software acceptance testing, the system should include

- a. Delivered software
- b. All user documents
- c. Final version of other sofware deliverables
- d. All of the above

35. Accepatance testing means

- a. Testing performed on a single stand-alone module or unit of code
- b. Testing after changes has been made to ensure that no unwanted changes were introduced
- c. Testing to ensure that the system meets the need of the organization and end user.
- d. Users test the application in the developers environment

36. Acceptance tests are normally conduced by the

- a. Developers
- b. End users
- c. Test team
- d. System engineers

37. Which is not test result data

- a. Test factors
- b. Interface objective
- c. Platform
- d. Test estimation

38. What type of test that will be conducted during the execution of tests, which will be based on software requirements. What category of status data I am looking?

- a. Test Result
- b. Test Transaction
- c. Defects
- d. Efficiency

39. Summary (project)status report provides

- a. General view of a project
- b. General view of all the projects
- c. Detailed view of all the projects
- d. Detailed information about a project

40. Project status report provides

- a. General view of a project
- b. General view of all the projects
- c. Detailed view of all the projects
- d. Detailed information about a project

Answers:

- Q.1-D
- Q.2-E
- Q.3-A
- Q.4-B
- Q.5-A
- Q.6-C
- Q.7-C
- Q.8-D
- Q.9-A
- Q.10-A
- Q.11-A
- Q.12-C
- Q.13-B
- Q.14-C
- Q.15-B
- Q.16-D
- Q.17-A
- Q.18-C
- Q.19-D

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Q.20-D
Q.21-D
Q.22-D
Q.23-C
Q.24-B
Q.25-D
Q.26-A
Q.27-B
Q.28-C
Q.29-D
Q.30-C
Q.31-C
Q.32-C
Q.33-D
Q.34-D
Q.35-C
Q.36-B
Q.37-D
Q.38-B
Q.39-B
Q.40-D

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ISTQB Foundation Sample Question Paper No. 32

1. What is not the primary data given by the tester in test execution

- a. Total number of tests
- b. Number of test cases written for change request
- c. Number of test executed to date
- d. Number of tests executed successfully to date

2. Do the current project results meet the performance requirements? Which section of Project Status Report I should look for:

- a. Vital Project Information
- b. General Project Information
- c. Project Activities Information
- d. Essential Elements Information

3. Which is a section of Summary status report

- a. Vital project information
- b. Essential elements information
- c. Project activities information
- d. Time Line Information

4. Test Result data is

- a. Test Transactions
- b. Test events
- c. Business objectives
- d. Reviews

5. What types of efficiency can be evaluated during testing?

- a. Software system
- b. Testing
- c. Development
- d. A and C
- e. A and B

6. Who is essentially responsible for the quality of a product?

- a. Customer
- b. QA Manager
- c. Development Manager
- d. Test Manager

7. What are the 3 costs that make up the Cost of Quality?

- a. Prevention, Appraisal, Failure
- b. Appraisal, Development, Testing
- c. Testing, Prevention, rework
- d. Failure, Prevention, Testing

8.What are expected production costs?

- a. labor, materials, and equipment
- b. personnel, training, and rollout
- c. training, testing, user-acceptance

9.Appraisal costs are:

- a. Costs associated with preventing errors
- b. Costs associated with detection of errors
- c. Costs associated with defective products delivered to customers

10.An example of a Failure Cost is:

- a. Training
- b. Inspections
- c. Rework

11. If you could build a 0 defect product, would there be any costs involved?

If yes, what costs?

- a. Preventive costs, but they are minimally involved
- b. No costs will be involved
- c. Failure costs

12. How many Deming principles are there?

- a. 10
- b. 14
- c. 5
- d. 7

13. How many levels are in the CMM?

- a. 18
- b. 3
- c. 4
- d. 5

14. The Pareto analysis is most effective for:

- a) Ranking items by importance
- b) Showing relationships between items Measuring the impact of identified items

15. What is COTS?

- a. Commercial On-the-shelf software
- b. Commercial off-the-shelf software
- c. Common Offshore testing Software

16. What is the purpose of code coverage tools?

- a. They are used to show the extent to which the logic in the program was executed during testing.
- b. They are used as an alternative to testing

c. They are used to compile the program

17. Four examples of test specific metrics.

- a. Testing Effort variation, Defect Density, Testing Efficiency, Requirements tested.
- b. Inspection, review efficiency, Testing Effort variation, Defect Density
- c. Test scalability, Defect deviation, Testing Efficiency, Schedule variation

18. Give one commonly recognized size measurement tool.

- a. Effort analysis
- b. LCO Analysis
- c. LOC Analysis
- d. Code Analysis

19. Give three components included in a system test report.

- a. Description of Testing; resource requirement; and Recommendation
- b. Testing requirements; defects; and usability
- c. Description of test results and finding(defects); Summary(environment and references; and Recommendation)

20. Reviews is what category of cost of quality?

- a. preventive
- b. Appraisal
- c. Failure

21. The largest cause of quality is from production failure

- a. True
- b. False

22. Defects are least costly to correct at what stage of the development cycle?

- a. Requirements
- b. Analysis and Design
- c. Construction
- d. Implementation

23. The purpose of software testing is to:

- a. Demonstrate that the application works properly
- b. Detect the defects
- c. Validate the logical design

24. _____ must be developed to describe when and how testing will occur.

- a. Test Strategy
- b. Test Plan
- c. Test Design
- d. High Level document

25. It is difficult to create test scenarios for high-level risks

- a. True
- b. False

26. _____ testing assumes that the path of logic in a unit or program is known.

- a. Black Box testing
- b. Performance Testing
- c. White Box testing
- d. Functional testing

27. _____ test is conducted at the developer's site by a customer.

- a. Beta
- b. System
- c. Alpha
- d. None of the above

28. Juran is famous for

- a. Quality Control
- b. Working on Trend Analysis
- c. Pareto
- d. Fish Bone Diagram

29. Software testing activities should start

- a. As soon as the code is written
- b. During the design stage
- c. When the requirements have been formally documented
- d. As soon as possible in the development lifecycle

30. Non statistical tools are used in the

- a. Work Practice process
- b. Benchmarking process
- c. Both A and B
- d. None of the above

31. Quality Function deployment(QFD) is a

- a. Statistical tool
- b. Non statistical tool
- c. Development tool
- d. None of the above

32. The sequence of the four Phases involved in Benchmarking process is

- a. Action, Planning, Integration, Analysis
- b. Planning, Analysis, Integration, Action
- c. Analysis, Planning, Integration, Action
- d. Analysis, Action, Planning, Integration

33. Defect Density is calculated by

- a. Total no. of Defects/Effort
- b. Valid Defects/ Total no. of Defect
- c. Invalid Defects/ Valid Defects
- d. Valid Defects/ Effort

34. Effort Variation is calculated by

- a. (Planned-Actual)/Actual
- b. (Actual-Planned)/Actual
- c. (Actual-Planned)/Planned
- d. (Planned-Actully)/Planned

35. Percentage Rework is calculated by

- a. (Review effort + Rework effort)/Actual Effort expended
- b. (Review effort + Rework effort)/Actual Effort expended
- c. Rework Effort/Planned Effort
- d. Rework Effort/Actual Effort expanded

36. The _____ is an application of process management and quality improvement concepts to software development and maintenance.

- a. Malcolm Baldridge
- b. ISO 9000
- c. SEI/CMM
- d. QS14000

37. A quantitative measurement used to determine the test completion is

- a. Defect measurement
- b. Requirements coverage
- c. Statistical Analysis

38. The categories of Error Oriented Techniques are

- a. Statistical assessment and Error-based testing
- b. Error-based testing and Fault based testing.
- c. Fault based testing and Statistical assessment
- d. Statistical assessment, Error-based testing and Fault based testing.

39. The following factors should be considered for the Test Tool selection

- 1. Test Phase**
- 2. Test Objective**
- 3. Test Technique**
- 4. Test Deliverable**
- a. 1 & 2
- b. 1,2,3 & 4
- c. 2 & 3
- d. 1,2 & 3

40. Equivalence partitioning consists of various activities:

- a. Ensure that test cases test each input and output equivalence class at least once
- b. Identify all inputs and all outputs
- c. Identify equivalence classes for each input
- d. All of the above

Answers:

- Q.1-B
- Q.2-D
- Q.3-D
- Q.4-C
- Q.5-E
- Q.6-C
- Q.7-A
- Q.8-A
- Q.9-B
- Q.10-C
- Q.11-A
- Q.12-B
- Q.13-D
- Q.14-A
- Q.15-B
- Q.16-A
- Q.17-A
- Q.18-C
- Q.19-C
- Q.20-B
- Q.21-A
- Q.22-A
- Q.23-A
- Q.24-B
- Q.25-A
- Q.26-C
- Q.27-C
- Q.28-A
- Q.29-D
- Q.30-B
- Q.31-B
- Q.32-B
- Q.33-A
- Q.34-C
- Q.35-D
- Q.36-C
- Q.37-B

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Q.38-D

Q.39-B

Q.40-D

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ISTQB Foundation Sample Question Paper No. 33

1. It is an unfair test to perform stress testing at the same time you perform load testing.

- a. True
- b. False

2. Testing error message fall under _____ category of testing.

- a. Incremental Testing
- b. Thread Testing
- c. Documentation Testing
- d. Stress Testing

3. The term “defect” is related to the term “fault” because a “fault” is a defect, which has not yet been identified.

- a. True
- b. False

4. What qualities must an individual possess to test effectively a software application.

- a. Good Communication Skill
- b. Good Error Guessing
- c. Good Analytical Skill
- d. All of the above

5. Defects are least costly as what stage of Development cycle.

- a. Analysis and Design
- b. Construction
- c. Requirements
- d. Implementation

6. QC is

- a. Phase building activity
- b. Intermediate activity
- c. End of Phase activity
- d. Design activity

7. _____ is monitoring defects from the time of recording until satisfactory resolution has been determined.

- a. Quality measurement
- b. Defect measurement
- c. Defect Tracking
- d. None of the above

8. Most common cause of defects is

- a. Failure to estimate
- b. Failure to asses risks
- c. Ambiguous or incomplete requirements
- d. Weak communication

9. Verification activities during design stages are

- a. Reviewing and Inspecting
- b. Inspecting and Testing
- c. Reviewing and Testing
- d. Reviewing, Inspecting and Testing.

10. Decision to stop testing should be based upon

- a. Successful use of specific test case design methodologies
- b. A percentage of coverage for each coverage category
- c. Rate of error detection falls below a specified threshold
- d. All of the above

11. Testing, which is carried out using no recognized test case design

- a. Failure Testing
- b. Adhoc Testing
- c. Exhaustive Testing
- d. Empty test case Testing

12. A test case design technique for a component in which test cases are designed to execute statements is called as?

- a. State transition Testing
- b. Static Testing
- c. Transition testing
- d. Statement testing

13. This testing is a mechanism that simulates problems in the original environment so that an alternative-processing environment can be tested.

- a. Disaster testing
- b. Functional testing

- c. Regression testing
- d. Compliance Testing

14. Status Reports in Test Director can be generated using

- a. Document Viewer
- b. Document Generator
- c. Document Tracker
- d. None of the above

15. The following five tasks are needed to develop, use and maintain Test scripts.

Unit scripting

Pseudo concurrency scripting

Integration scripting

Regression scripting

Stress/Performance scripting

- a. 1, 2 and 3
- b. 2 and 4
- c. 1, 2 and 5
- d. 1, 2, 3, 4 and 5

16. Testing where the system is subjected to large number of idea.

- a. System Testing
- b. Volume Testing
- c. Statistical Testing
- d. Statement Testing

17. Integration testing where no incremental testing takes place prior to all the system's components being combined to form the system.

- a. System Testing
- b. Component Testing
- c. Incremental Testing
- d. Big bang Testing

18. Recovery testing aims at verifying the system's ability to recover from varying degrees of failure.

- a. True
- b. False

19.Which testing methods are used by end-users who actually test software before they use it?

- a. Alpha and Beta Testing
- b. White Box Testing
- c. Black Box Testing
- d. Trial and Error Testing

20.The testing attempts to violate those procedures, which should test the adequacy of the security procedures.

- a. Disaster testing
- b. Functional testing
- c. Regression testing
- d. Compliance testing

21. Which of the following is NOT a standard related to testing?

- a. IEEE829
- b. IEEE610
- c. BS7925-1
- d. BS7925-2

22.which of the following is the component test standard?

- a. IEEE 829
- b. IEEE 610
- c. BS7925-1
- d. BS7925-2

23 which of the following statements are true?

- a. Faults in program specifications are the most expensive to fix.
- b. Faults in code are the most expensive to fix.
- c. Faults in requirements are the most expensive to fix
- d. Faults in designs are the most expensive to fix.

24. Which of the following is not the integration strategy?

- a. Design based
- b. Big-bang
- c. Bottom-up
- d. Top-down

25. Which of the following is a black box design technique?

- a. statement testing

- b. equivalence partitioning
- c. error- guessing
- d. usability testing

26. A program with high cyclometric complexity is almost likely to be:

- a. Large
- b. Small
- c. Difficult to write
- d. Difficult to test

27. Which of the following is a static test?

- a. code inspection
- b. coverage analysis
- c. usability assessment
- d. installation test

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

- a. white box
- b. glass box
- c. structural
- d. functional

29. A program validates a numeric field as follows:

values less than 10 are rejected, values between 10 and 21 are accepted, values greater than or equal to 22 are rejected;

which of the following input values cover all of the equivalence partitions?

- a. 10,11,21
- b. 3,20,21
- c. 3,10,22
- d. 10,21,22

30. Using the same specifications as question 29, which of the following covers the MOST boundary values?

- a. 9,10,11,22
- b. 9,10,21,22
- c. 10,11,21,22
- d. 10,11,20,21

31.Which of the following is NOT a reasonable test objective:

- a) to find faults in the software

- b) to prove that the software has no faults
- c) to give confidence in the software
- d) to find performance problems

32.Which expression best matches the following characteristics of the review processes:

- 1. led by the author
- 2. undocumented
- 3. no management participation
- 4. led by a moderator or leader
- 5. uses entry and exit criteria

- s) inspection
- t) peer review
- u) informal review
- v) walkthrough

- a) s = 4 and 5, t = 3, u = 2, v = 1
- b) s = 4, t = 3, u = 2 and 5, v = 1
- c) s = 1 and 5, t = 3, u = 2, v = 4
- d) s = 4 and 5, t = 1, u= 2, v = 3

33.Which of the following is NOT part of system testing?

- a) business process-based testing
- b) performance, load and stress testing
- c) usability testing
- d) top-down integration testing

34.Which statement about expected outcomes is FALSE?

- a) expected outcomes are defined by the software's behaviour
- b) expected outcomes are derived from a specification, not from the code
- c) expected outcomes should be predicted before a test is run
- d) expected outcomes may include timing constraints such as response times

35.The standard that gives definitions of testing terms is:

- a) ISO/IEC 12207
- b) BS 7925-1
- c) ANSI/IEEE 829
- d) ANSI/IEEE 729

36.The cost of fixing a fault:

- a) is not important
- b) increases the later a fault is found
- c) decreases the later a fault is found
- d) can never be determined

37.Which of the following is NOT included in the Test Plan document of the Test Documentation Standard?

- a) what is not to be tested
- b) test environment properties
- c) quality plans
- d) schedules and deadlines

38.Could reviews or inspections be considered part of testing?

- a) no, because they apply to development documentation
- b) no, because they are normally applied before testing
- c) yes, because both help detect faults and improve quality
- d) yes, because testing includes all non-constructive activities

39.Which of the following is not part of performance testing?

- a) measuring response times
- b) recovery testing
- c) simulating many users
- d) generating many transactions

40.Error guessing is best used:

- a) after more formal techniques have been applied
- b) as the first approach to deriving test cases
- c) by inexperienced testers
- d) after the system has gone live

Answers:

Q.1-B

Q.2-C

Q.3-A

Q.4-D

Q.5-C

Q.6-C

Q.7-C

Q.8-C

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Q.9-D

Q.10-D

Q.11-B

Q.12-D

Q.13-A

Q.14-B

Q.15-D

Q.16-B

Q.17-D

Q.18-A

Q.19-A

Q.20-D

Q.21-B

Q.22-D

Q.23-C

Q.24-A

Q.25-B

Q.26-D

Q.27-A

Q.28-D

Q.29-C

Q.30-B

Q.31-B

Q.32-A

Q.33-D

Q.34-A

Q.35-B

Q.36-B

Q.37-C

Q.38-C

Q.39-B

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Q.40-A

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