

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. Combining 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

- 39. A
- 40. B