

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

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
<b>Conditions</b>				
Citibank Card Member	Yes	Yes	No	No
Type of Room	Silver	Platinum	Silver	Platinum
<b>Actions</b>				
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:

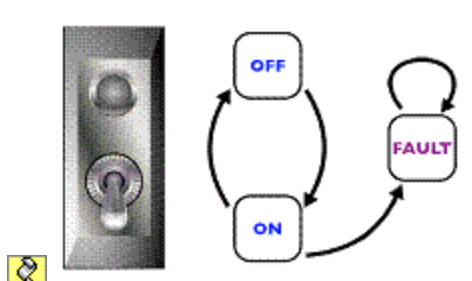
- a) Re Testing .
- b) Confirmation Testing
- c) Regression Testing
- d) Negative Testing

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 be 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?

- a) Test Planning and 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 Partioning , 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	11 c	21 a	31 a
2 a	12 a	22 a	32 c
3 a	13 c	23 a	33 d
4 d	14 c	24 c	34 b
5 d	15 c	25 c	35 c
6 c	16 d	26 b	36 b
7 a	17 a	27 c	37 b
8 b	18 d	28 b	38 b
9 d	19 c	29 a	39 b
10 d	20 b	30 a	40 a