

Each Question has multiple choice answers and carries 2 marks  
Attempt all questions and mark the correct answers.

1. The difference between unit and integration test.
  - a. The unit test is white box and integration test is black box testing
  - b. There should not be failures in integration test
  - c. The unit test is unnecessary while the integration test is mandatory
  - d. The integration test is conducted for every time a unit of application is built.
2. What are the issues and challenges in waterfall model of SDLC?
  - a. Managing change in the requirements
  - b. Testing of code
  - c. Frequent delivery and update
  - d. Design issues
3. What is Test Driven Development?
  - a. The tests are written after the code is developed.
  - b. The application requirements drive the test cases
  - c. Test first approach.
  - d. Every test should succeed at first time only
4. What is the cultural challenge for DevOps?
  - a) People need to learn new languages
  - b) People need to work together across traditional role boundaries
  - c) People need to work different hours
  - d) People need to move desks frequently
5. In TDD who defines the unit test cases?
  - a) The developer
  - b) Product QA Tester
  - c) Business Owner
  - d) The Manager
6. What is TDD cycle?
  - a) Every Test has first time failure
  - b) Test-Implementation -Test.
  - c) Test Failure- Implementation -Test Success-Refactor-Test
  - d) TDD is just a single stage of development.
  - a. Red-Green-Refactor
7. What are user acceptance tests?
  - a) Tests to verify that every functional requirement has been implemented
  - b) Testing that the user interface works
  - c) Testing that system components works together
  - d) Testing user interface usability

8. What should be the main consideration when writing code under TDD?
  - a) Adding checks for possible bad values
  - b) Writing the most efficient code
  - c) Write the minimum code to pass the test
  - d) Allowing for future expansion
9. What do code quality tools do?
  - a) Static analysis of source code
  - b) Check for compilation errors
  - c) Translate one language into another
  - d) *Debug code*
10. How do users get files from a remote Git repository?
  - a) By doing a check out
  - b) By doing an FTP transfer
  - c) By cloning the remote repository to a local copy
  - d) By adding the files using command gitadd
11. What advantage does Continuous Integration provide?
  - a) It simplifies the build process
  - b) It stops developers checking in bad code
  - c) Build errors are quickly detected and reported
  - d) There are no real advantages
12. What is a fake?
  - a) A test double which returns fixed values
  - b) A mocking framework
  - c) A full implementation not suitable for production
  - d) A test double which verifies how many times a method is called
13. What is code refactoring?
  - a) Restructure the code to match the new requirements
  - b) Restructure the code without changing the external functional behavior
  - c) Refactoring is done before writing any test cases.
  - d) Refactoring is done to improve code maintenance
14. Mark true or false
  - a) For every function code there should be only one test case
  - b) In One test case multiple behaviors are tested
  - c) The Test cases are dependent on each other for execution
  - d) Component under test is shared across all test cases.
15. What is assertion?
  - a) Positively assert the unit code
  - b) Verifies the result values and throws error in case of NOT matching.
  - c) Controls the unit flow.

d) Process of assertive locking

16. What is true of following?

- a) Every test case should test for success only
- b) The test cases run in sequence during test execution
- c) The unit test cases are part of application delivery to client.
- d) Each of the test cases must be executed manually.

17. What is the advantage of TDD?

- a) The TDD makes the development incremental and iterative
- b) The TDD can be applied to legacy code.
- c) TDD increases the code coverage.
- d) The TDD increases the flexibility of code to match the changes.

18. What is the use of mocking in testing?

- a) It mocks frequently and is very funny.
- b) The mocking allows testing of the code in absence of dependencies.
- c) The mock objects allow verifying the behavior.
- d) Mocks are used in production code.

19. The BDD and TDD difference

- a) TDD supports unit test cases.
- b) BDD is complete different than TDD
- c) BDD is an extension of TDD to support Acceptance TDD
- d) The TDD does not support BDD criteria

20. What is Gold Plating in coding?

- a) Gold Plating is working on a task beyond the point where the extra effort is worth any value it adds.
- b) Writing complicated code
- c) Making user interfaces visually appealing
- d) Work which adds little or no value

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