

SIXTH SEMESTER B.C.A. DEGREE EXAMINATION, MARCH 2013**(CCSS)****CA 6B 17 (E1)—SOFTWARE TESTING****Time: Three Hours****Maximum : 30 Weightage****Part A***Answer all questions.*

1. _____ attempts defect prevention by concentrating on the process of producing the product rather than working on defect detection/correction after the product is built.
2. _____ testing takes into account the code, code structure, internal design, and how they are coded, and this testing are actually run by the computer on the built product.
3. The testing technique that requires devising test cases to demonstrate that each program function is operational is called _____
4. Which of the following are characteristics of testable software ?
 - (a) Observability.
 - (b) Simplicity.
 - (c) Stability.
 - (d) all of the above.
5. Scenario-based testing
 - (a) concentrates on actor and software interaction.
 - (b) misses errors in specifications.
 - (c) misses errors in subsystem interactions.
 - (d) both (a) and (b).
6. _____ is a document that describes an input, action, or event and its expected result, in order to determine if a feature of an application is working correctly.
7. A Non-Functional Software testing done to check if the user interface is easy to use and understand
 - (a) Usability Testing.
 - (b) Security Testing.
 - (c) Unit testing.
 - (d) Block Box Testing.
8. A metric used to measure the characteristic of documentation and code is called as _____
9. The testing which is done to make sure that the existing features are not affected by new changes is known as _____

Turn over

10. Beta testing will be done by :

- (a) Developer. (b) User.
(c) Tester. (d) none of the above.

11. How severely the bug is effecting the application is called as ?

- (a) Severity. (b) Priority.
(c) Fix ability. (d) Traceability.

12. _____ is a document that describes the objectives, scope, approach and focus of a software testing effort.

(12 x = 3 weightage)

Part II

Answer all questions.

13. Define the term quality assurance.
14. What is Scenario testing ?
15. Briefly describe about Acceptance testing.
16. What do you mean by test planning ?
17. Why System testing is done during software development ?
18. Describe in brief about Defect bash.
19. Differentiate between Verification and Validation.
20. What is a test report ?
21. How test cases are generated ?

(9 x 1 = 9 weightage)

Part III

Answer any five questions.

22. What do you mean by Static Testing ? Explain in detail.
23. Define Black-box testing. When and how to do Black-box testing ?
24. Differentiate between Functional and Non-functional testing.
25. What are the factors which governs Performance testing ?
26. Explain how a test can be managed and executed.
27. What do you mean by Integration testing ? Explain.
28. What is a White-box testing ? Compare it with Black-box testing.

(5 x 2 = 10 weightage)

Part IV

Answer any two questions.

29. Explain the different phases of software project in detail.
30. What do you mean regression testing ? Discuss the different types of regression testing.
31. Describe in detail the different types of Test metrics and measurements.

(2 x 4 = 8 weightage)