

**SIXTH SEMESTER B.C.A. DEGREE EXAMINATION
MARCH 2014**

(UG-CCSS)

Elective Course

CA 6B 17 (E 01) – SOFTWARE TESTING

Time : Three Hours

Maximum : 30 **Weightage****Part I***Answer all questions.*

1. _____ is a **way** of testing the external functionality of the code by examining and testing the program code that realizes the external functionality.
2. The percentage of **code** covered by a test is found by adopting a technique called _____ of code.
3. Black-box testing attempts to find errors in which of the following categories :
 - (a) Incorrect or missing functions.
 - (b) Interface errors.
 - (c) Performance errors.
 - (d) All of the above.
4. Variance from product specifications is called.:
 - (a) Report.
 - (b) Requirement.
 - (c) Defect.
 - (d) None of the above.
5. Software testing which is done without planning and Documentation is known as :
 - (a) **Adhoc** Testing.
 - (b) Unit Testing.
 - (c) Regression testing.
 - (d) Functional testing.
6. The process that deals with the technical and management issues of software development is called as _____
7. A metric used to measure the characteristic of the methods, **techniques** and tools employed in developing, implementing and maintaining the software system is called as _____
8. The system test report is normally written at what point in software development ?
 - (a) After unit testing.
 - (b) After integration testing.
 - (c) After system testing.
 - (d) After acceptance testing.

Turn over

9. How severely the bug is effecting the application is called as .
 (a) Severity. (b) Priority.
 (c) Fix ability. (d) Traceability.
10. _____ 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.
11. Verification is :
 (a) Process based. (b) Product based.
 (c) Both a and b. (d) None of the above.
12. 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) Black Box Testing.

(12 x ¼ = 3 weightage)

Part II

Answer all questions.

13. Describe briefly about structural testing.
14. What do you mean by a Process Model ?
15. Define the term Defect Bash.
16. What is the significance of Acceptance testing ?
17. Why System testing is done during software development ?
18. What is a test case ? Explain.
19. Explain in brief the methodology of Performance testing.
20. What are release metrics ?
21. What do you mean by Integration testing ?

(9 x 1 = 9 weightage)

Part III

Answer any five questions.

22. Explain the significance of Quality assurance and control in software development.
23. What is Black-box testing ? How to do it ?
24. Describe briefly the different life cycle models.

25. What are the factors which governs Performance testing ?
26. What are the challenges faced in White-box testing ?
27. Discuss in detail about test reporting.
28. Write short notes on (i) Progress Metric and (ii) Productivity Metric.

(5 x 2 = 10 weightage)

Section D

Answer any two questions.

29. Explain the different phases of testing in detail.
30. Perform a detailed comparative analysis of Functional and Non-functional testing.
31. What is Regression testing ? When and how to do it ? Explain its different types.

(2 x 4 = 8 weightage)