C 60181 (Pages : 3) Name

Reg. No. . . . .

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.

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 it's different types.

(2 x 4 = 8 weightage)