**C 80109**                          (Pages : 2)                    Name.........................................

Reg. No. . . . . . . . . . . . . . . .

# SIXTH SEMESTER B.C.A. DEGREE EXAMINATION, MARCH/APRIL 2015

(U.G.—CCSS)

**Elective Course**

**CA 6B 17 (E1)—SOFTWARE TESTING**

Time : Three Hours                                                    Maximum : **30** Weightage

## Part A

*Answer all questions.*

1. Which of the following is not a life cycle model ?

    (a) Waterfall model.                      (b) Spiral model.

    (c) Prototyping model.                    (d) Capability maturity model.

2. A _____ occurs when a fault executes.

3. _____ is the phase of testing that tests the basic functionality and structure of a unit of code.

4. Beta testing is carried out by :

    (a) Users.                                (b) Developers.

    (c) Testers.                              (d) All of the above.

5. _____ represents the number of requests / business transactions processed by the product in a specified time duration.

    (a) Response Time.                        (b) Throughput.

    (c) Latency.                              (d) None of the above.

6. Test plan which covers the activities common for all plans is called

7. _____ is the difference between the start of an activity and the completion of the activity.

8. Equivalence class partitioning is related to :

    structural testing.                       (b) Black-Box testing.

    Mutation testing.                         (d) All of the above.

9. The expression $V(G) = e - n + 2P$ gives _____

10. _____ is an ad hoc testing where people performing different roles in an organization test the product together at the same time.

    _____ measures the amount of code executed for a test that follows a particular path in a given system.

**Turn over**

12. _____ is a formal testing technique where source code is traced by a group with a small set of test cases.

     (a) Code Review.           (b) Code Walkthrough.

     (c) Code Inspection.         (d) None of the above.

(12 x    = 3 weightage)

**Part B**

*Answer **all** questions.*

13. Explain Quality control.

14. Differentiate between Black-Box and White-Box testing.

15. What is a test case ?

16. Explain system testing.

17. What is alpha testing ?

18. What is top-down integration ?

19. What is stress testing ?

20. What is communication Management ?

21. What is the use of test plan ?

(9 x 1 = 9 weightage)

Part C

*Answer any **five** questions.*

22. Explain the Waterfall Model.

23. What are the advantages of static testing by humans ?

24. Explain Boundary Value Analysis Technique.

25. Explain system scenarios.

26. What is Deployment testing ?

27. Write a note on Performance tuning.

28. What is test reporting ? What are the different types of test reports?

(5 x 2 = 10 weightage)

**Part D**

*Answer any **two** questions.*

29. Explain the various methods used for Structural testing.

30. Explain the methodology used for Regression testing.

31. Explain in detail the different types of Test Metrics.

(2 x 4 = 8 weightage)