

C 80109

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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 :
  - (a) Structural testing.
  - (b) Black-Box testing.
  - (c) 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.
11. \_\_\_\_\_ 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 × ¼ = 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 × 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 × 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 × 4 = 8 weightage)