

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.  
\_\_\_\_\_ 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 = 36 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)