

**C 1840**

**(Pages : 3)**

**Name**

**Reg. No.....**

**SIXTH SEMESTER B.C.A. DEGREE EXAMINATION, MARCH/APRIL 2016**

**(UG—CCSS)**

**Elective Course**

**CA 6B 17 (E1)—SOFTWARE TESTING**

**Maximum : 30 Weightage**

**Time : Three Hours**

**Part A**

*Answer all questions.*

1. **During the development phase** which of the following testing approach cannot be done :
- (a) Unit testing.
  - (b) Bottom up testing.
  - (c) Integration testing.
  - (d) Acceptance testing.
2. Software mistakes during coding are known as
- (a) Failures.
  - (b) Defects.
  - (c) Bugs.
  - (d) Errors.
3. The set of test cases is called a \_\_\_\_\_
4. Which of the following is true ?
- (a) Testing is the same as quality assurance.
  - (b) Testing is a part of quality assurance.
  - (c) Testing is not a part of quality assurance.
  - (d) Testing is same as debugging.
5. White Box testing is also called as \_\_\_\_\_ testing.
6. \_\_\_\_\_ is the actual time that is spent on a particular activity or a phase.
7. **ETVX** stands for \_\_\_\_\_
8. \_\_\_\_\_ can be defined as the delay between the point of request and the first response from the product.
9. \_\_\_\_\_ describes the degree to which the source code of a program has been tested.
- 10. Functionality of a software is tested by :
- (a) White box testing.
  - (b) Black box testing.
  - (c) Regression testing.
  - (d) None of the above.

**Turn over**

11. Cyclomatic complexity is denoted by :

- (a)  $V(G) = e - n + 2P$ .
- (b)  $V(G) = II + 1$ .
- (c)  $V(G)$  = Number of regions of the graph.
- (d) None of the above.

12. Integration testing techniques are :

- (a) Topdown.
- (b) Bottom up.
- (c) Sandwich.
- (d) All of the above.

(12 x ¼ = 3 weightage)

### Part B

Answer **all** questions.

- 13. What is static testing ?
- 14. Define Verification.
- 15. What is system integration ?
- 16. Differentiate between alpha and beta testing.
- 17. What is Interoperability testing ?
- 18. What is performance benchmarking ?
- 19. What is tuning ?
- 20. What is defect density ?
- 21. What is Test Incident Report ?

(9 x 1 = 9 weightage)

### Part C

Answer any **five** questions.

- 22. Differentiate between Quality Assurance and Quality Control.
- 23. Explain code walkthrough and code review.
- 24. Explain the Equivalence Partitioning method.
- 25. Explain the steps in defect bash.
- 26. What is the purpose of system testing ?

27. What are the guidelines for selecting test cases for Acceptance testing ?
28. Write a note on Project Metrics.

(5 x 2 = 10 weightage)

**Part D**

*Answer any **two** questions.*

29. Explain any four life cycle models.
30. What is functional testing ? What are the techniques used for functional testing ?
31. Explain the various activities in Test Planning.

(2 x 4 = 8 weightage)