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

(UG—CCSS)

Elective Course

CA 6B 17 (E1)—SOFTWARE TESTING

Time : Three Hours   Maximum : 30 Weightage

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.

11. Cyclomatic complexity is denoted by :

    (a) $V(G) = e - n + 2P$.

    (b) $V(G) = \Pi + 1$.

    (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 × 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 × 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 × 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 × 4 = 8 weightage)