SIXTH SEMESTER B.A./B.Sc. DEGREE EXAMINATION, MARCH 2020

(CUCBCSS—UG)

B.C.A.

BCA 6B 17 (E3)—SOFTWARE TESTING AND QUALITY ASSURANCE

(2017 Admissions)

Time : Three Hours   Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 mark.

1. Test cases are created in which phase ?

2. Which testing enables the tester to evaluate the software behavior when exceptions occur ?

3. Tester is executing a test to evaluate and it complies with the user requirement for a certain field be populated by using a dropdown box containing a list of values, at that time tester is performing ———————— testing.

4. Testing beyond normal operational capacity is ————————.

5. Which testing application security has the purpose to prevent problems which may affect the application integrity and stability ?

6. Coupling and Cohesion is explained by ————————.

7. Difference between Retesting and Regression Testing is ————————.

8. Data classification is done by which type of Decision Tree ?

9. The approach/document used to make sure all the requirements are covered when writing test cases

10. What are the various Testing Levels ?

(10 × 1 = 10 marks)

Part B

Answer **all** *questions.*
Each question carries 2 marks.

11. In white box testing, what do you verify ?

12. Mention what bottom-up testing is ?

13. When is used Decision table testing ?

Turn over

14. Which of the following is the primary purpose of the integration strategy for integration testing in the small ?

15. What is beta testing ?

16. When should "Regression Testing" be performed ?

17. Why does the boundary value analysis provide good test cases ?

18. What is test coverage ?

$(8 \times 2 = 16 \text{ marks})$

Part C

Answer any six questions.
Each question carries 4 marks.

19. Explain the following terms ?

    (a) Defect (b) Bug (c) Error.

20. What is the difference between interoperability and compatibility testing with some examples ?

21. Explain Adhoc Testing and its types ?

22. What is the difference between re-testing and regression testing ?

23. What is Acceptance Testing ?

24. What is Big Bang Approach ?

25. Explain Security Testing technique.

26. What is Software Requirements Specification ?

27. Explain requirement traceability and its importance ?

$(6 \times 4 = 24 \text{ marks})$

Part D

Answer any three questions.
Each question carries 10 marks.

28. Explain Phases of the prototyping model and rapid application development model.

29. Explain acceptance testing and scenario based testing.

30. What are the key benefits in using metrics in product development and testing ?

31. Explain performance testing techniques.

32. Describe functional and nonfunctional testing techniques.

$(3 \times 10 = 30 \text{ marks})$