C 1096

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Name...................................

Reg. No..............................

SIXTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION MARCH 2021

B.C.A.

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

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

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

1. Alpha testing is done at ————.

2. Which review is normally used to evaluate a product to determine its suitability for the intended use and to identify discrepancies ?

3. A metric used to measure the characteristic of the methods, Techniques and tools employed in developing, implementing and maintaining the software system called as ————.

4. Retesting modules connected to the program or component after a change has been made ?

5. An Important metric is the number of defects found in internal testing compared to the defects found in customer tests, Status of test activities against the plan, Test coverage achieved so far, comes under ?

6. This Testing Technique examines the basic program structure and it derives the test data from the program logic; Ensuring that all statements and conditions executed at least once. It is called as ————.

7. Unit testing will be done by ———— ?

8. Boundary value analysis belong to ————.

9. List White box testing technique ?

10. Executing the same test case by giving the number of inputs on same build called as ————.

(10 × 1 = 10 marks)

Turn over

Section B

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

12. What is Alpha testing ?

13. How many types of approaches are used in Integration Testing ? Explain.

14. What are the principles of Software Testing ?

15. What is Inspection ?

16. What is Regression Testing ?

17. What is the difference between UAT (User Acceptance Testing) and System testing ?

18. What is Quality Assurance ?

(5 × 3 = 15 marks)

Section C

19. Differentiate process Metric and project metrics.

20. Explain what are different test levels ?

21. Differentiate functional Testing and nonfunctional testing ? What the system actually does is functional testing. ?

22. Explain what is the KEY difference between preventative and reactive approaches to testing.

23. Explain different types Performance Testing techniques?

24. What are problems faced in the waterfall model ?

25. What is the difference between effort and schedule ?

26. Explain Defect bashing techniques in testing.

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

(5 × 5 = 25 marks)

Section D

Answer any **three** *question.*

Each question carries 10 marks.

28. State the steps involved in SDLC (Software Development Life Cycle) and STLC (Software Testing Life Cycle).

29. What is Regression Testing ? When and How We Do Regression Testing ?

30. Explain different types of integration testing techniques.

31. What kind of input do we need from the end user to begin proper testing ?

32. What is the additional value of plotting weighted defects ? In what way does it provide an additional perspective than the defect classification trend ?

(3 × 10 = 30 marks)