

**C 20076**

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Name.....

Reg. No.....

**SIXTH SEMESTER (CUCBCSS-UG) DEGREE EXAMINATION, MARCH 2022**

B.C.A.

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

(2017 and 2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

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

1. Define software quality.
2. What is static testing ?
3. List any *two* challenges in white box testing.
4. When to do black box testing ?
5. What is the need of system testing ?
6. What is non-functional testing ?
7. When to do regression testing ?
8. What is deployment ?
9. Define software process.
10. What is Progress Metrics ?

(10 × 1 = 10 marks)

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

11. Briefly explain test planning.
12. Discuss different types of regression testing.
13. Comment on structural testing.
14. What is implementation ?

**Turn over**

15. Write the advantages of incremental process model.
16. Write the challenges in black box testing.
17. What is validation ?
18. Define productivity metrics.

(8 × 2 = 16 marks)

### Part C

*Answer any **six** questions.  
Each question carries 4 marks.*

19. Write the difference between scenario testing and defect bash testing.
20. Write a note on test execution and test reporting.
21. Discuss different phases in SDLC.
22. Briefly explain about software quality assurance.
23. What is waterfall model ? Discuss different phases in detail.
24. Write a note on acceptance testing.
25. Compare and contrast static testing and dynamic testing.
26. What are test cases ? How will you define a test case?
27. How will you perform system testing ?

(6 × 4 = 24 marks)

### Part D

*Answer any **three** questions.  
Each question carries 10 marks.*

28. Discuss spiral model in detail.
29. What is integration testing ? Discuss the advantages of integration testing.
30. Write a note on functional testing and its types.
31. Write significance of performance testing in software engineering.
32. How will you measure quality using project metrics ? Explain in detail.

(3 × 10 = 30 marks)