

Reg. No. : .....

Name : .....

**Sixth Semester B.C.A. Degree Examination, April 2024**  
**Career Related First Degree Programme under CBCSS**

**Group 2(b) — Computer Applications**

**Core Course**

**CP 1642 — SOFTWARE TESTING**

**(2021 Admission)**

Time : 3 Hours

Max. Marks : 80

**SECTION – A**

**(Very Short Answer Type)**

One word to maximum of one sentence. Answer all questions.

1. \_\_\_\_\_ leads to deviation from the expected results.
2. SDLC stands for \_\_\_\_\_
3. The primary goal of \_\_\_\_\_ testing is to ensure that the entire software system meets specified requirements.
4. TQM stands for \_\_\_\_\_
5. Give any two verification methods in software development.
6. \_\_\_\_\_ testing involves deliberately providing invalid, unexpected, or erroneous inputs to evaluate how well the software can handle unexpected conditions.

P.T.O.

7. \_\_\_\_\_ automated testing tool is used to test applications, measuring system behavior, and performance under load.
8. White box testing is classified as \_\_\_\_\_ testing and \_\_\_\_\_ testing.
9. \_\_\_\_\_ coverage refers to writing test cases that execute each of the program statements.
10. Equivalence partitioning comes in \_\_\_\_\_ testing.

(10 × 1 = 10 Marks)

### SECTION – B

(Short Answer)

Not to exceed **one** paragraph, answer any **eight** questions. Each question carries 2 marks.

11. What is unit testing?
12. What is code review?
13. What is usability testing?
14. What do you mean by quality assurance?
15. What is six sigma?
16. Define debugging.
17. Differentiate structural testing and static testing.
18. Mention the four types of coverages in code coverage testing.
19. What are the columns in an equivalence partition table?
20. Mention any two situations where state based testing is useful.
21. What do you mean by test management?
22. What is a test plan?

(8 × 2 = 16 Marks)

## SECTION – C

### (Short Essay)

Not to exceed **120** words, answer any **six** questions. Each question carries **4** marks.

23. Explain the purpose of software testing.
24. Explain top-down testing technique with its advantages and disadvantages.
25. Explain the advantages and disadvantages of black box testing.
26. Write notes on regression testing.
27. Explain the general characteristics of software testing.
28. Write notes on boundary value analysis.
29. Explain user documentation testing.
30. Explain the tasks to be covered in test automation.
31. Describe condition coverage in white box testing.

**(6 × 4 = 24 Marks)**

## SECTION – D

### (Long Essay)

Answer any **two** questions. Each question carries **15** marks.

32. Explain various approaches to software testing.
33. Discuss several methods to achieve static testing by humans.
34. Explain decision table based black box testing.
35. Describe the steps in a test process.

**(2 × 15 = 30 Marks)**