15627

Reg. No. ☐☐☐☐☐☐☐

VI Semester B.C.A. Degree Examination, September/October - 2022

COMPUTER SCIENCE

Software Testing

(CBCS Scheme)

Time : 3 Hours   **Maximum Marks : 100**

Instructions to Candidates:

Answer all sections.

SECTION - A

I. Answer any ten questions. Each question carries two marks.   (10×2=20)

1. What is software testing?

2. Differentiate between alpha test and beta test.

3. What is test case?

4. What is branch testing?

5. What is infeasibility problem?

6. Define interclass testing.

7. What is Genericity.

8. Define fault and failure.

9. What is meant by usability?

10. Define software Reliability.

11. What is white box testing?

12. What are cognitive aids?

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SECTION - B

II.   Answer any five questions. Each question carries 5 marks.   (5×5=25)

13.   Write a note on verification and validation.

14.   Explain the concept of category-Partition testing.

15.   Write a note on Statement testing.

16.   Explain Definition-Use Associations.

17.   Write a note on Quality Process.

18.   Explain Regression testing.

19.   What is Cyclomatic complexity?

20.   Write a short note on test strategy document.

SECTION - C

III.   Answer any three questions. Each question carries 15 marks.   (3×15=45)

21.   a)   Explain the dependability properties.   **(8)**

        b)   Discuss random versus partition testing.   **(7)**

22.   a)   Explain Data flow testing criteria.   **(7)**

        b)   Explain the object oriented software testing process.   **(8)**

23.   a)   Explain Risk planning with different types of risk.   **(7)**

        b)   Discuss the roles and responsibilities of quality team.   **(8)**

24.   a)   Write a note on System testing.   **(8)**

        b)   Explain monitoring improving the process.   **(7)**

25.   a)   Discuss Testing Decision structures.   **(8)**

        b)   Explain Analysis and Test Plan.   **(7)**

SECTION - D

IV.   Answer any one question. Each question carries 10 marks.   (1×10=10)

26.   Explain basic principles of analysis and testing.

27.   Explain integration testing strategies.