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Reg. No.

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VI Semester B.C.A. Degree Examination, August/September - 2023

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 2 marks.

(10×2=20)

1. Define Alpha testing and Beta Testing.
2. What is software error and fault?
3. Define Regression Testing.
4. What is Test specification?
5. Define Test oracle.
6. What is combinational Testing?
7. What is Data Flow Testing?
8. Define Interclass Testing.
9. What is a Risk?
10. Define White Box testing and Black Box Testing.
11. Define Acceptance Testing.
12. What is Test case?.



SECTION - B

II. Answer any Five questions. Each question carries 5 marks.

(5×5=25)

13. Explain verification and validation process in software testing.
14. Write and explain the 6 principles of test and analysis.
15. Explain Adequacy criteria in software testing.
16. Write the structure of test plan document.
17. What is functional testing? Explain.
18. Explain cyclomatic complexity.
19. Explain Quality process in software testing.
20. Write and explain test case document in software testing.

[P.T.O.]

**SECTION - C**

- III. Answer any Three questions. Each question carries 15 Marks. (3×15=45)**
21. a) Explain dependability properties. (8)
b) Write and explain quality Goals of a software. (7)
22. a) Explain Random Testing. (7)
b) Explain Combinational Testing. (8)
23. a) Explain Data Flow Testing. (8)
b) Write a short note on object oriented software testing method. (7)
24. a) Write and explain about software Risk. (8)
b) Explain system Testing. (7)
25. a) Explain test strategy Document. (10)
b) Write a short note on Automation Testing. (5)

SECTION - D

- IV. Answer any One question. Each question carries 10 marks. (1×10=10)**
26. What is integration Testing? Explain.
27. Explain structural Testing process with example.
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