



PRESIDENCY UNIVERSITY

BENGALURU

Make Up Examinations - December 2025

Date: 26 - 12- 2025

Time: 1.00pm to 04.00pm

Roll No.

School: SOIS	Program: BCA	
Course Code: CSA 2010	Course Name: Software Testing	
Semester: MK	Max Marks: 100	Weightage: 50%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	30	40	30	NA	NA

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

10Q x 2M=20M

1	Define defect.	2 Marks	L1	CO1
2	Define software testing metric.	2 Marks	L1	CO1
3	What is the use defect leakage?	2 Marks	L1	CO1
4	List types of test metrics.	2 Marks	L1	CO1
5	Define Software faults.	2 Marks	L1	CO1
6	An input field takes the year of birth between 1900 and 2004 What are the boundary values for testing this field?	2 Marks	L1	CO1
7	Define defect density.	2 Marks	L1	CO1
8	Define Software Quality Control.	2 Marks	L1	CO1
9	What is Equivalence Clas Testing?	2 Marks	L1	CO1
10	List the advantages of White box testing.	2 Marks	L1	CO1

Part B

Answer the Questions

Total 80 Marks

11.	a.	Explain Glass Box Testing.	5 Marks	L2	C02
	b.	Outline the procedure of manual testing?	5 Marks	L2	C02

or

12.	a.	Compare Verification and Validation.	5 Marks	L2	C02
	b.	Infer the significance of Unit Testing?	5 Marks	L2	C02

13.	a.	Illustrate the grading problem using path testing technique.	10 Marks	L2	C02
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or

14.	a.	Describe the defect life cycle with the help of a neat diagram.	10 Marks	L2	C02
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15.	a.	Explain the fundamentals of software testing for Quality assurance.	10 Marks	L1	C01
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Or

16.	a.	How do you write a bug reports found while testing applications	10 Marks	L1	C01
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17.	a.	Consider a scenario where you have the following data from test case development and using this data, calculate various metrics <ul style="list-style-type: none">• Total Number of Defects Identified: 20• Defects Accepted as Valid by the Development Team: 15• Defects Deferred for Future Releases: 5• Defects Fixed: 12• Total Test Cases Written: 200• Total Test Cases Executed: 180	15 Marks	L3	C03
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Or

18.	a.	Consider an ATM system and study its specification and write a bug report on the same.	15 Marks	L3	C03
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19.	a.	Write a program to implement the binary search algorithm. Determine the basis paths and using them derive different test cases, and discuss the test results.	15 Marks	L3	C03
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Or

20.	a.	Write a program in any suitable language to solve the triangle problem. Analyze it from the perspective of equivalence class value testing, derive different test cases and discuss the test results.	15 Marks	L3	C03
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21.	a.	Summarize the SDLC model using a block diagram.	10 Marks	L2	CO2
	b.	Explain Phases of Software Project.	10 Marks	L2	CO2

Or

22.	a.	Outline the Spiral Model with the help of a neat diagram.	10 Marks	L2	CO2
	b.	Compare QA & QC.	10 Marks	L2	CO2

******* BEST WISHES *******