Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 11-10-2025 **Time:** 09.30am to 11.00am

School: SOCSE	**Program:** B.Tech (Devops)	
Course Code : CDV2503	**Course Name:** Software Testing	
Semester: V	**Max Marks**: 50	**Weightage**: 25%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	**26**	**24**	**-**	**-**	**-**

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. **5Q x 2M=10M**

1	Compare static testing with dynamic testing.	**2 Marks**	**L2**	**CO1**
2	What is smoke testing and sanity testing?	**2 Marks**	**L1**	**CO1**
3	Define big bang integration testing.	**2 Marks**	**L1**	**CO1**
4	What is statement testing?	**2 Marks**	**L1**	**CO2**
5	Define white box testing.	**2 Marks**	**L1**	**CO2**

Part B

Answer the Questions. **Total Marks 40M**

6.	**a.**	Explain the various phases of V-model with its advantages and disadvantages.	**10 Marks**	**L2**	**CO1**
		Or			
7.	**a.**	Explain the various levels of testing in detail.	**10 Marks**	**L2**	**CO1**

8.	**a.**	Illustrate various phases of spiral model with its advantages and disadvantages.	**10 Marks**	**L2**	**CO1**
		Or			
9.	**a.**	Explain acceptance testing along with scenarios for flipkart application.	**10 Marks**	**L2**	**CO1**

10.	**a.**	Illustrate boundary value analysis in detail. Mention its pros and cons. A movie ticket booking system allows users to book between 1 and 10 tickets per transaction. Apply Boundary Value Analysis to create test cases that verify the ticket booking limits.	**10 Marks**	**L2**	**CO2**
		Or			

11.	**a.**	Illustrate path testing in detail.
		A program calculates student results as follows:
		`if (marks >= 50) {`
		`  if (marks >= 75) {`
		`  System.out.println("Distinction");`
		`  } else {`
		`  System.out.println("Pass");`
		`  }`
		`} else {`
		`  System.out.println("Fail");`
		`}`
		`System.out.println("End of Result Processing");`
		a) Draw the control flow graph (CFG) for the above program.
		b) Identify all independent paths.
		c) Design a set of test cases that achieve 100% path coverage.
			10 Marks	**L2**	**CO2**

12.	**a.**	Illustrate branch testing with appropriate examples.	**10 Marks**	**L2**	**CO2**
		Or			
13.	**a.**	Explain test reporting in detail. List the benefits of test report. What are the steps in the test reporting phase?	**10 Marks**	**L2**	**CO2**