



# PRESIDENCY UNIVERSITY

BENGALURU

Roll No.

## End - Term Examinations – MAY 2025

Date: 20-05-2025

Time: 09:30 am – 12:30 pm

School: SOCSE	Program: B. Tech in Computer Science and Technology	
Course Code : CSE3043	Course Name: Automated Test Management	
Semester: VI	Max Marks: 100	Weightage: 50%

CO - Levels	C01	C02	C03	C04	C05
Marks	26	26	24	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.

10Q x 2M=20M

1.	Differentiate between SDLC and STLC.	2 Marks	L2	C01
2.	List any four principles of software testing.	2 Marks	L1	C01
3.	Mention the key differences between White-box testing and Black-box testing.	2 Marks	L1	C01
4.	State the difference between Functional and Non-Functional Testing.	2 Marks	L1	C02
5.	State any two benefits of Automation Testing.	2 Marks	L1	C02
6.	Define Unit Testing and Integration Testing.	2 Marks	L1	C02
7.	Define Test Scenario and how is it different from a Test Case?	2 Marks	L1	C03
8.	Define Traceability Matrix.	2 Marks	L1	C03
9.	List the purpose of a Test Plan Document?.	2 Marks	L1	C04
10.	List the key stages in the Bug Life Cycle.	2 Marks	L1	C04

**Part B****Answer the Questions.****Total Marks 80M**

<b>11.</b>	<b>a.</b>	Explain the need for software testing and list any four reasons of its importance.	<b>10 Marks</b>	<b>L2</b>	<b>CO1</b>
	<b>b.</b>	Differentiate between SDLC and STLC with at least two phases from each.	<b>10 Marks</b>	<b>L2</b>	<b>CO1</b>
<b>Or</b>					
<b>12.</b>	<b>a.</b>	Describe the Software Testing Life Cycle (STLC) and list its key characteristics.	<b>10 Marks</b>	<b>L2</b>	<b>CO1</b>
	<b>b.</b>	Explain the Seven Principles of Software Testing with examples.	<b>10 Marks</b>	<b>L2</b>	<b>CO1</b>

<b>13.</b>	<b>a.</b>	Explain the role of automated testing in controlling software testing costs?	<b>10 Marks</b>	<b>L2</b>	<b>CO2</b>
	<b>b.</b>	Explain how automated testing ensures repeatability and scalability.	<b>10 Marks</b>	<b>L2</b>	<b>CO2</b>
<b>Or</b>					
<b>14.</b>	<b>a.</b>	Define unit testing, and explain why is it considered the first step in software testing.	<b>10 Marks</b>	<b>L2</b>	<b>CO2</b>
	<b>b.</b>	Explain the role of test cases in unit testing.	<b>10 Marks</b>	<b>L2</b>	<b>CO2</b>

<b>15.</b>	<b>a.</b>	Explain the concept of traceability matrix, and why is it important in software testing.	<b>10 Marks</b>	<b>L2</b>	<b>CO3</b>
	<b>b.</b>	Illustrate the different types of traceability matrices used in software testing.	<b>10 Marks</b>	<b>L2</b>	<b>CO3</b>
<b>Or</b>					
<b>16.</b>	<b>a.</b>	Define a Test Scenario? Explain its significance in software testing	<b>10 Marks</b>	<b>L2</b>	<b>CO3</b>
	<b>b.</b>	Explain the process of designing effective test cases. What are the key components of a test case?	<b>10 Marks</b>	<b>L2</b>	<b>CO3</b>

<b>17.</b>	<b>a.</b>	List out the key components of an Estimation Technique in software testing? Explain each briefly.	<b>10 Marks</b>	<b>L2</b>	<b>CO4</b>
	<b>b.</b>	Explain Test Plan Document, and its key components.	<b>10 Marks</b>	<b>L2</b>	<b>CO4</b>
<b>Or</b>					
<b>18.</b>	<b>a.</b>	Explain the different stages of the bug life cycle.	<b>10 Marks</b>	<b>L2</b>	<b>CO4</b>
	<b>b.</b>	Explain the importance of the bug life cycle in software development?	<b>10 Marks</b>	<b>L2</b>	<b>CO4</b>