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PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations - MARCH 2026

Date: 10 - 03- 2026

Time: 02:00pm - 03:30pm

School: SOIS-PG	Program: MCA	
Course Code: CSA4014	Course Name: Software Testing and Quality Assurance	
Semester: IV	Max Marks: 50	Weightage: 25%

CO - Levels	C01	C02	C03	C04	C05
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	What is the difference between verification and validation?	2 Marks	L2	C01
2	How testing contributes to improving software reliability?	2 Marks	L1	C01
3	Compare SDLC and STLC.	2 Marks	L2	C01
4	How does static testing help in reducing the overall cost of testing?	2 Marks	L1	C02
5	When is black box testing preferred over white box testing? Give a reason.	2 Marks	L1	C02

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Explain the concepts of Quality, Quality Assurance, and Quality Control in software projects.	10 Marks	L2	CO1
Or					
7.	a.	Describe the Software Testing Life Cycle (STLC) with suitable diagrams.	10 Marks	L2	CO1
Or					
8.	a.	Explain how software testing helps in achieving reliable and high-quality software.	10 Marks	L2	CO1
Or					
9.	a.	Explain the importance of early testing in the software development process.	10 Marks	L2	CO1
Or					
10.	a.	Explain the concept of white box testing and its significance in software testing.	10 Marks	L2	CO2
Or					
11.	a.	Explain structural testing and its role in ensuring code quality.	10 Marks	L2	CO2
Or					
12.	a.	Describe the boundary value analysis technique with suitable examples.	10 Marks	L2	CO2
Or					
13.	a.	Explain the challenges involved in white box testing.	10 Marks	L2	CO2