PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations – December 2025

Date: 11 – 12- 2025   **Time:** 01:00pm – 04:00pm

School: SOCSE	Program: B.TSech
Course Code: RAI3400	Course Name: Advanced Automation Design and Development
Semester: VII	Max Marks: 100	Weightage: 50%

CO - Levels	CO1	CO2	CO3	CO4	CO5
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.	Define automation implementation methodology	2 Marks	L1	CO1
2.	List any two benefits of automation	2 Marks	L2	CO1
3.	What is the purpose of breakpoints in debugging	2 Marks	L1	CO1
4.	What is a transition in a State Machine	2 Marks	L1	CO2
5.	Name two key mechanisms used in RE Framework	2 Marks	L1	CO2
6.	Mention one best practice to follow while using Orchestrator	2 Marks	L2	CO2
7.	What is the purpose of job priority in Orchestrator	2 Marks	L1	CO3
8.	What is the Invoke Method activity used for	2 Marks	L1	CO3
9.	What is a lambda expression in LINQ	2 Marks	L2	CO4
10.	Define Computer Vision	2 Marks	L2	CO4

Part B

11.	a.	Discuss the key benefits of automation in modern enterprises with suitable examples	10 Marks	L2	CO1
	b.	Explain how to use breakpoints, watch, immediate, and call stack panels in debugging UiPath workflows	10 Marks	L2	CO1
		Or			
12.	a.	Explain the concept of Object Repository and evaluate its benefits in large-scale projects	10 Marks	L2	CO1
	b.	Analyze the importance of Workflow Analyzer and how it improves automation quality	10 Marks	L3	CO1

13.	a.	Differentiate between sequence, flowchart, and state machine with examples	10 Marks	L2	CO2
	b.	Explain how State Machines are applied in real-world automation scenarios	10 Marks	L2	CO2
		Or			
14.	a.	Create a simple project using State Machine and describe the workflow blocks used	10 Marks	L3	CO2
	b.	Explain the working of the dispatcher/performer model and its advantages in large-scale automation	10 Marks	L2	CO2

15.	a.	Explain triggers in UiPath Orchestrator and analyze their role in job scheduling and automation	10 Marks	L2	CO3
	b.	Evaluate the importance of job priorities and alerts in monitoring automated processes	10 Marks	L3	CO3
		Or			
16.	a.	Explain the process of remote debugging connection and discuss its advantages	10 Marks	L2	CO3
	b.	Explain the usage of the Invoke Method activity with an example scenario	10 Marks	L2	CO3

17.	a.	Explain the practical benefits of using LINQ queries in automation	10 Marks	L2	CO4
	b.	Interpret and implement LINQ lambda expressions for data extraction and manipulation	10 Marks	L3	CO4
		Or			
18.	a.	Explain the purpose of the WebDriver protocol and evaluate its role in browser automation	10 Marks	L	CO4
	b.	Explain Computer Vision activities and recorders, and create an example automation use case	10 Marks	L	CO4