

U.S.N.

# B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

## January / February 2025 Semester End Main Examinations

Programme: B.E.

Branch: Information Science and Engineering

Course Code: 22IS5PERPA

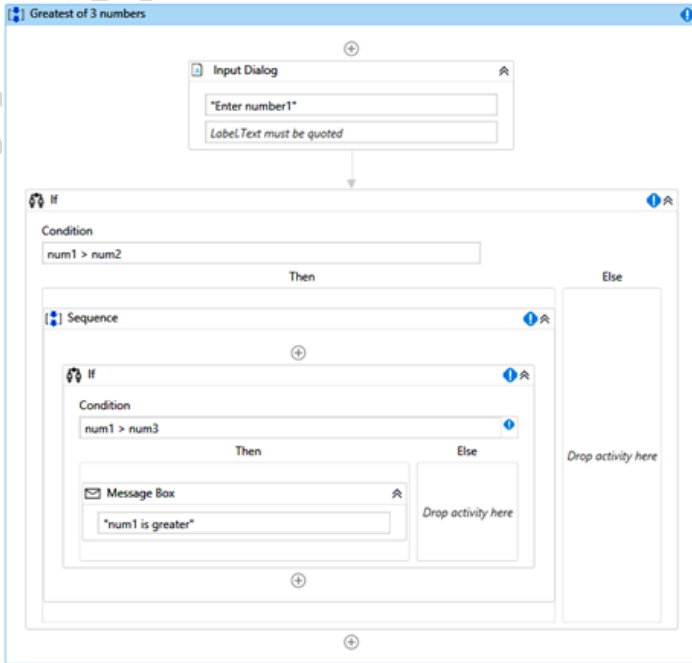
Course: Robotic Process Automation Design and Development

Semester: V

Duration: 3 hrs.

Max Marks: 100

**Instructions:** 1. Answer any FIVE full questions, choosing one full question from each unit.  
2. Missing data, if any, may be suitably assumed.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.			UNIT - I	CO	PO	Marks
	1	a)	Discuss any six techniques available for automation to increase efficiency in enterprises.	CO1	PO1	06
		b)	Detail out on some of the important benefits of Robotic Process Automation (RPA).	CO1	PO1	08
		c)	Differentiate between Automatic recording and Manual recording.	CO1	PO1	06
			OR			
	2	a)	Provide a detailed illustration of the core components of Robotic Process Automation.	CO1	PO1	10
		b)	Provide the steps to automate for emptying Recycle Bin and trash mails in Gmail account.	CO1	PO2	10
			UNIT - II			
	3	a)	Analyze the below given process and complete the missing steps. Redraw the workflow.	CO3	PO3	05
						

	b)	Highlight the importance of arguments in UiPath. Illustrate the working of arguments with an example workflow.	CO3	PO3	08
	c)	Design a workflow in UiPath to build a data table and display the contents in a message box.	CO3	PO3	07
		<b>OR</b>			
4	a)	Suppose we want to extract data from Amazon's website. Say we want to search for books on Amazon and extract the search results. Use data scraping to perform the following task and store the results in a notepad file.	CO3	PO3	10
	b)	Exemplify the use of For each activity to create an automation in UiPath. Illustrate with an example workflow.	CO3	PO3	10
		<b>UNIT - III</b>			
5	a)	With the help of workflow examples, outline the working of the following activities in UiPath: i) Anchor base ii) Type secure text iii) System trigger	CO3	PO3	09
	b)	Differentiate between the different types of Screen Scraping methods used in UiPath.	CO2	PO2	05
	c)	Elucidate on some frequently used Mail activities in UiPath.	CO2	PO2	06
		<b>OR</b>			
6	a)	With the help of workflow examples, outline the working of the following activities in UiPath: i) Attach Window ii) Find relative element iii) Wait attribute	CO3	PO3	10
	b)	There are many scenarios where the normal implementation would fail. With examples, discuss any 5 failure points and outline how to tackle them.	CO3	PO3	10
		<b>UNIT - IV</b>			
7	a)	Design a workflow in UiPath to monitor a send email event through Gmail. Clearly mention the steps.	CO3	PO3	08
	b)	Detail out on the different actions performed on the UiPath workflow when the following debugging techniques are used. Illustrate with an example. i) Slow Step ii) Step Over iii) Step Into iv) Step Out	CO3	PO3	12
		<b>OR</b>			
8	a)	Demonstrate with an example for reusing workflows in automation of UiPath projects.	CO3	PO3	10
	b)	With an example workflow, illustrate how exception handling and debugging is taken care in UiPath.	CO3	PO3	10

			<b>UNIT - V</b>			
	9	a)	Explicate some of the best practices considered while working on a project in UiPath.	<i>C02</i>	<i>P02</i>	<b>10</b>
		b)	Reusing workflows in UiPath makes the automation process easier and better. Explicate with examples, the two different methods for reusability of workflows.	<i>C03</i>	<i>P03</i>	<b>10</b>
			<b>OR</b>			
	10	a)	What are the benefits of nesting workflows design? Illustrate the process with a simple case study.	<i>C03</i>	<i>P03</i>	<b>10</b>
		b)	Detail out on the steps to: i) logical components of UiPath Orchestrator ii) deploying a process in Orchestration Server	<i>C02</i>	<i>P02</i>	<b>10</b>

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