



## SEMESTER END EXAMINATIONS - MARCH 2022

Program	: B.E. : Computer Science and Engineering	Semester	: V
Course Name	: Robotics Process Automation Design and Development	Max. Marks	: 100
Course Code	: CSE552	Duration	: 3 Hrs

### Instructions to the Candidates:

- Answer one full question from each unit.

### UNIT - I

- Explain the main types of Projects or Workflows that can be supported using UiPath studio. CO1 (08)
  - What is RPA? Differentiate between RPA and Automation. CO1 (06)
  - Explain the following: CO1 (06)
    - UiPath Studio
    - UiPath Robot
    - UiPath Orchestrator.
- Define robots in RPA? Describe types of robots with its advantages. CO1 (08)
  - State the purpose of the following: CO1 (06)
    - Activity Panel
    - Properties Panel
    - Output Panel.
  - What are the important Phases of the RPA Life Cycle? CO1 (06)

### UNIT - II

- List the steps to create automation, to print an integer variable, which will increase from 7 to 100 in increments of 5. Using assign activity. CO2 (08)
    - List the steps to create automation to generate all multiples of 9, less than 90. Using do while activity.
  - Define Variables. List and Explain the Properties and Types of Variables in UiPath studio. CO2 (06)
  - Create a RPA Bot Using UiPath Studio to illustrate the steps to write two messages to the output panel with a delay of 120 seconds. CO2 (06)
- Create a RPA Bot using UiPath studio to read the name and age of the person and display if he/she is eligible to vote. CO2 (08)
    - Create a RPA Bot Using UiPath Studio to find the sum of EVEN and ODD elements in an Array A = {3, 11, 5, 22, 7, 20, 9, 46, 79} using For Each activity.
  - Illustrate switch activity with an example. CO2 (06)
  - Create a RPA Bot Using UiPath Studio to illustrate the steps to enter two numbers and check whether their sum is less than 20. CO2 (06)

### UNIT - III

- Write down the steps to read an excel file data and write all its data to an excel file by creating a data table. CO3 (08)
  - Define Selectors. List and Explain the Types of Selectors along with, properties of the selector editor in UiPath studio. CO3 (06)
  - List and Explain any three built-in methods to manipulate Date Time Variables in UiPath. CO3 (06)

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6. a) List and explain any two keyboard activities which generally involve an interaction with a keyboard. <sup>default</sup> ~~some~~ simulate type/click CO3 (08)  
 b) Define Data Manipulation and its importance. List and Explain Basic Operations of Data Manipulation in UiPath automation. CO3 (06)  
 c) List and Explain different types of recorders in UiPath studio. <sup>basic</sup> ~~web~~ CO3 (06)

## UNIT - IV

7. a) Discuss the types of automation that can be applied to emails using UiPath Studio Activities. CO4 (08)  
 b) Explain the following Activities: CO4 (06)  
     i) Read PDF Activity. ii) Read PDF with OCR Activity.  
 c) Define Data scraping. Explain the steps in Data scraping with a suitable example. CO4 (06)
8. a) Write the steps to build a workflow using **Read Range** and **Append Range** activity to read data from a workbook and append data to another workbook. CO4 (08)  
 b) "Alice working in organization for managing tickets through Emails. Alice delete an email after resolving the tickets". Create a RPA Bot Using UiPath Studio to login to Gmail and remove mails from Trash folder in Gmail account for every 120 minutes. CO4 (08)  
 c) Identify and Explain the list of activities for the Excel File Operation. CO4 (04)

## UNIT - V

9. a) Discuss the Best Practice for Error Handling in RPA. CO5 (10)  
 b) Explain the steps that need to be followed to deploy the robot to Orchestrator. CO5 (10)
10. a) Define Exception handling. Demonstrate handling of exceptions with an example. CO5 (10)  
 b) List and Explain the Functionalities of an Orchestrator. CO5 (10)

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