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18CS745

Seventh Semester B.E. Degree Examination, June/July 2024
Robotic Process Automation Design and Development

Time: 3 hrs.   Max. Marks: 100

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. Define Robotic Process Automation (RPA). Illustrate with examples the benefits of RPA.
(10 Marks)

   b. Explain the implications of RPA on Business Process Automation (BPA), Business Process Management (BPM) and Business Process Outsourcing (BPO). **(10 Marks)**

OR

2 a. Explain different flavors of RPA with example. **(06 Marks)**

   b. Illustrate with an example how the following technologies helpful in implementing the automation tasks : i) APIs ii) Databases iii) Optical Character Recognition. **(06 Marks)**

   c. Illustrate with example the downsides of RPA. **(08 Marks)**

Module-2

3 a. With a neat diagram describe the importance and functions of various components of RPA.
(10 Marks)

   b. Explain the importance of knowing the following of UI path for developing Bot.
   i) Uipath studio ii) Uipath Robot iii) Uiptah Orchestrator. **(10 Marks)**

OR

4 a. Demonstrate the process flow for "emptying Gmail Trash" with the help of a Uipath Robot, on the basis of recording. Discuss the steps in detail. **(10 Marks)**

   b. Design the bot For: Emptying Recycle Bin" with detailed explanation of steps. **(10 Marks)**

Module-3

5 a. Create a flowchart/sequence with switch activity to check whether a given number is odd or even. Display the appropriate output message. **(06 Marks)**

   b. Demonstrate the while activity by printing all odd numbers from 1 – 50 with neat diagram.
(06 Marks)

   c. Explain the steps to design a bot that will identify the names starting with letter 'a'.
(08 Marks)

OR

6 a. Create a flowchart/sequence to build a table with 4 rows and 4 colomns that shows the students details with (Name, USN, Branch and Grade). Display the details in an appropriate output box. **(10 Marks)**

   b. Design a bot for reading the cell from excel file and writing into a cell in the excel file.
(10 Marks)

Module-4

7 a. List the set of activities that can be used to find controls on screen/applications and explain any 4 in detail. **(10 Marks)**

   b. Explain mouse and keyboard activities in Uipath studio to design a bot. **(10 Marks)**

OR

8 a. Explain web recording process for extracting data of books from Amazon website using data scraping activity. **(08 Marks)**

b. Explain different screen scraping methods. **(06 Marks)**

c. Explain how to extract data from Uipath web site's main page using screen scraping.

(06 Marks)

Module-5

9 a. Illustrate with an explain exception handling process for program or procedure that fails to execute. **(10 Marks)**

b. Explain the common exceptions faced while working with Uipath studio. **(10 Marks)**

OR

10 a. Explain different debugging techniques in Uipath studio. **(12 Marks)**

b. Explain interesting use cases those having the relationship between RPA and Artificial Intelligence (AI). **(08 Marks)**

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