USN | | | | | | | | | | 21CS744

Seventh Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025
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. What is RPA? Explain flavors and benefits of RPA. **(10 Marks)**
　　b. Explain the downsides of RPA and RPA compared to BPO, BPM and BPA. **(10 Marks)**

OR

2　a. Explain the following :
　　　　i) Optical Character recognition
　　　　ii) Application programming Interfaces
　　　　iii) Programming languages and low code **(10 Marks)**
　　b. Explain the following :
　　　　i) Web technology
　　　　ii) Cognitive automation
　　　　iii) Artificial Intelligence in RPA **(10 Marks)**

Module-2

3　a. Explain the components of RPA in detail. **(10 Marks)**
　　b. Explain the following :
　　　　i) Uipath orchestrator
　　　　ii) Types of Robots (Uipath) **(10 Marks)**

OR

4　a. Explain the following :
　　　　i) Emptying the trash in Gmail
　　　　ii) Emptying Recycle bin **(12 Marks)**
　　b. Explain the types of recording in Uipath studio. **(08 Marks)**

Module-3

5　a. Explain the following with reference to control flow activities.
　　　　i) The delay activity
　　　　ii) The break activity
　　　　iii) The Do while activity
　　　　iv) The If activity **(12 Marks)**
　　b. Illustrate the step-by-step examples using sequence and flow chart. **(08 Marks)**

OR

6　a. Explain the file operation with step-by-step example. **(12 Marks)**
　　b. Explain the following :
　　　　i) Reading an excel file and creating data table using data from the excel file
　　　　ii) Creating a data table and then writing all its data to an excel file. **(08 Marks)**

Module-4

7 a. Explain the implementation of attach window activity. **(08 Marks)**
   b. Explain the activities of finding the control. **(12 Marks)**

OR

8 a. Explain the techniques for waiting for a control. **(06 Marks)**
   b. Explain the following Act on controls: mouse and key board a activities. **(10 Marks)**
   c. List the activities, that are used extensively in a citrix environment. **(04 Marks)**

Module-5

9 a. What is exception handling? Explain in detail. **(10 Marks)**
   b. Explain the following :
      i) Logging and taking screenshots
      ii) Collection crash dumps **(10 Marks)**

OR

10 a. Explain the following :
       i) Scaling RPA
       ii) Hyper factor in RPA **(10 Marks)**
    b. Write a note on
       i) Software – as – a – Service (SaaS) and open source
       ii) Privacy and Ethics **(10 Marks)**

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