

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

Autonomous Institute Affiliated to VTU

September / October 2023 Supplementary Examinations

Programme: B.E

Branch: Institutional Elective

Course Code: 21CC6OE1RD

Course: Robotic Process Automation Design and Development

Semester: VI

Duration: 3 hrs.

Max Marks: 100

Date: 25.09.2023

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

UNIT - I

- 1 a) Elaborate on various techniques of automation to increase the efficiency in enterprises. **08**
- b) Illustrate the components of RPA. **06**
- c) List and explain the industries which can be benefited using automation. **06**

UNIT - II

- 2 a) Illustrate do while activity to create an automation that increments an integer variable from 0 to 10 and display the message every time it is incremented. **10**
- b) Illustrate the process of building a data table. **10**

OR

- 3 a) Design automation that using If activity that allows the user for two numbers, checks to see if one is divisible by the other, and depending on the result, displays a different message in the Output panel. **10**
- b) Illustrate how collections work and how one can store values in collection variables. Exemplify an array collection of integers. **05**
- c) Signify the importance of In, Out, In/Out, Property arguments. **05**

UNIT - III

- 4 a) Illustrate Mouse Activities with suitable example. **12**
- b) Illustrate any two Keyboard Activities with suitable example. **08**

OR

- 5 a) In what situations you use OCR recognition technique for automation? Mention the advantages of Google and Microsoft OCR. Is OCR 100% accurate? Illustrate the working of OCR with an example. **10**
- b) Illustrate and elaborate on any five entities to tackle failure points. **10**

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 - IV

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|---|----|---|-----------|
| 6 | a) | What are assistant bots? Exemplify. | 05 |
| | b) | Automation program and activities may fail to execute at times. What should we do to deal with such cases? Illustrate with an example. Explain any three common exceptions and ways to handle them. | 15 |

UNIT - V

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|---|----|---|-----------|
| 7 | a) | Detail out on when to use Flowcharts, State Machines, or Sequences. | 06 |
| | b) | Differentiate between the different types of robots. | 06 |
| | c) | Summarize on how do we use orchestration server to control bots. | 08 |

SUPPLEMENTARY EXAMS 2023