

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

MCA

SEM: IV - THEORY EXAMINATION (2024- 2025)

Subject: Robotic Process Automation

Time: 3 Hours

Max. Marks: 100

General Instructions:

IMP: Verify that you have received the question paper with the correct course, code, branch etc.

1. This Question paper comprises of three Sections -A, B, &amp; C. It consists of Multiple Choice Questions (MCQ's) &amp; Subjective type questions.

2. Maximum marks for each question are indicated on right -hand side of each question.

3. Illustrate your answers with neat sketches wherever necessary.

4. Assume suitable data if necessary.

5. Preferably, write the answers in sequential order.

6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

**SECTION-A**

20

1. Attempt all parts:-

1-a. Main types of bots in RPA are ..? [CO1,K1]

1

- (a) Manual and Automatic
- (b) Fast and Slow
- (c) Online and Offline
- (d) Attended and Unattended

1-b. Which component of RPA interacts with applications? [CO1,K1]

1

- (a) User
- (b) Database
- (c) Flowchart
- (d) Bot

1-c. Which panel in UiPath is used to manage variables? [CO2,K1]

1

- (a) Output Panel
- (b) Properties Panel
- (c) Variables Panel
- (d) Activities Panel

1-d. The default variable type in UiPath is ...?[CO2,K1]

1

- (a) Text
- (b) Number
- (c) Generic Value

- (d) Array
- 1-e. Recording options can be found under which tab in UiPath Studio? [CO3,K1] 1
- (a) Design
- (b) Execute
- (c) Tools
- (d) Home
- 1-f. Data Scraping is used for: [CO3,K1] 1
- (a) Clicking buttons
- (b) Sending keystrokes
- (c) Extracting structured data
- (d) Typing into fields
- 1-g. Which trigger launches a process when a specific key combination is pressed? [CO4,K1] 1
- (a) System Trigger
- (b) Mouse Trigger
- (c) Hotkey Trigger
- (d) Time Trigger
- 1-h. Which activity monitors new emails arriving in Outlook? [CO4,K1] 1
- (a) Get Outlook Mail Messages
- (b) Outlook Trigger
- (c) Read Range
- (d) Invoke Workflow
- 1-i. \_\_\_\_\_ is required to deploy a robot from Orchestrator? [CO5,K1] 1
- (a) Wi-Fi connection
- (b) Valid license
- (c) Clipboard data
- (d) VPN
- 1-j. A package version can be: [CO5,K1] 1
- (a) Overwritten only
- (b) Created once
- (c) Incremented with each publish
- (d) Fixed permanently
2. Attempt all parts:-
- 2.a. Define the scope of automation in modern industries. [CO1,K1] 2
- 2.b. Describe how to create and manage Variables in UiPath. [CO2,K2] 2
- 2.c. Explain the need for defining Selectors.[CO3,K2] 2
- 2.d. Define assistant bots in the context of RPA. [CO4,K1] 2

|                                              |                                                                                                                                                  |    |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 2.e.                                         | List the steps for connecting a robot to the server. [CO5,K1]                                                                                    | 2  |
| <b>SECTION-B</b>                             |                                                                                                                                                  | 30 |
| 3. Answer any <u>five</u> of the following:- |                                                                                                                                                  |    |
| 3-a.                                         | Explain the areas where automation is mostly used. [CO1, K2]                                                                                     | 6  |
| 3-b.                                         | Discuss how RPA is helping in industries like banking, healthcare, and insurance.[CO1,K2]                                                        | 6  |
| 3-c.                                         | Demonstrate basic best practices for naming and using Variables.[CO2,K3]                                                                         | 6  |
| 3-d.                                         | Describe the purpose of the Arguments Panel in UiPath Studio. [CO2,K2]                                                                           | 6  |
| 3.e.                                         | Describe the steps involved when recording is used in UiPath. [CO3,K2]                                                                           | 6  |
| 3.f.                                         | Demonstrate the use of Try-Catch blocks to handle errors during execution. [CO4,K3]                                                              | 6  |
| 3.g.                                         | Describe how versioning and package creation are handled when a bot is published.[CO5,K2]                                                        | 6  |
| <b>SECTION-C</b>                             |                                                                                                                                                  | 50 |
| 4. Answer any <u>one</u> of the following:-  |                                                                                                                                                  |    |
| 4-a.                                         | Explain automation methods by comparing their good and bad points.[CO1,K2]                                                                       | 10 |
| 4-b.                                         | Describe important applications of RPA that save time and improve quality.[CO1,K2]                                                               | 10 |
| 5. Answer any <u>one</u> of the following:-  |                                                                                                                                                  |    |
| 5-a.                                         | Discuss full best practices for creating, managing, and using Variables in UiPath projects.[CO2,K2]                                              | 10 |
| 5-b.                                         | Examine the situations where Arguments are better than Variables in RPA design.[CO2,K3]                                                          | 10 |
| 6. Answer any <u>one</u> of the following:-  |                                                                                                                                                  |    |
| 6-a.                                         | Compare Basic, Desktop, and Web recording types in UiPath with examples of where each is best applied in a real-time automation project.[CO3,K2] | 10 |
| 6-b.                                         | Discuss various types of recording available in UiPath and describe a situation where each type can be used effectively in automation.[CO3,K2]   | 10 |
| 7. Answer any <u>one</u> of the following:-  |                                                                                                                                                  |    |
| 7-a.                                         | Discuss the types of exceptions commonly handled in UiPath and their role in workflow stability.[CO4,K2]                                         | 10 |
| 7-b.                                         | Explain the structure and purpose of using Try-Catch-Finally in UiPath workflows with suitable examples [CO4,K2]                                 | 10 |
| 8. Answer any <u>one</u> of the following:-  |                                                                                                                                                  |    |
| 8-a.                                         | Describe the importance of environment selection, versioning, and error checking before publishing a bot.[CO5,K2]                                | 10 |
| 8-b.                                         | Explain the process of creating and configuring a server for UiPath Orchestrator, including system requirements and installation steps.[CO5,K2]  | 10 |