

Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
 THIRD SEMESTER MCA (Second Year Direct) DEGREE EXAMINATION, DECEMBER  
 2018

**Course Code: RLMCA369**

**Course Name: PYTHON PROGRAMMING**

Max. Marks: 60

Duration: 3 Hours

**PART A**

*Answer all questions, each carries 3 marks.*

Marks

- |   |   |     |
|---|---|-----|
| 1 | What is meant by list? Write a python script to get the largest number from a list. | (3) |
| 2 | What are assertions in python? Give example.  | (3) |
| 3 | Write a python program to capitalize each word in a file.                           | (3) |
| 4 | Explain Built-in attribute methods of a class in python?                            | (3) |
| 5 | Explain compile() method with an example.   | (3) |
| 6 | Explain commit and rollback operations in python.                                   | (3) |
| 7 | What are widgets? Explain any three widgets in detail.                              | (3) |
| 8 | Write short notes on matplotlib.  | (3) |

**PART B**

*Answer six questions, one full question from each module and carries 6 marks.*

**Module I**

- |   |   |     |
|---|---|-----|
| 9 | Explain any three decision making statements in Python with suitable example. | (6) |
|---|---|-----|

**OR**

- |    |   |     |
|----|---|-----|
| 10 | a) What is mean by type conversion? Write a python script to convert a tuple to dictionary. | (3) |
|    | b) Write a python script to merge two python dictionaries.                                  | (3) |

**Module II**

- |    |   |     |
|----|---|-----|
| 11 | Explain date time module with suitable example. | (6) |
|----|---|-----|

**OR**

- |    |   |     |
|----|---|-----|
| 12 | a) What are recursive functions? Give an example.   | (3) |
|    | b) Write a Python function that takes two lists and returns true if they have at least one common member. | (3) |

**Module III**

- |    |   |     |
|----|---|-----|
| 13 | a) Explain seek() and tell() methods with example .                                 | (3) |
|    | b) Write a python program to search a word in a file and replace with another word. | (3) |

**OR**

14 Explain the concept of inheritance in Python with suitable examples. (6)

**Module IV**

15 Differentiate Regex patterns and Regex modifiers. Explain any 3 uses of regular expression with relevant example. (6)

**OR**

16 a) Write python code to insert, update and delete operations in a database table. (3)

b) Write a note on exception handling in databases. (3)

**Module V**

17 a) What is the role of Tkinter in GUI programming? (2)

b) Create a student registration page using Tkinter. (Name, course, address, Phone number). (4)

**OR**

18 Explain the concepts Web Clients, Web Servers, Web Services with suitable examples. (6)

**Module VI**

19 What are the difference between NumPy and SciPy? Explain NumPyArray with an example. (6)

**OR**

20 Differentiate Django Projects and Django Apps. How to create a project in Django. (6)

\*\*\*\*