

# C1037

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## MCA-E5

### Python Programming

Master of Computer Application (MCA)

4th Semester Examination, 2022 (June)

**Time : 2 Hours]**

**Max. Marks : 80**

**Note :** This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### SECTION-A

#### (Long Answer Type Questions)

**Note :** Section 'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

1. Write the algorithm, pseudocode and draw the flowchart for the Finding minimum in a list.

2. Explain the need for continue and break statements. Write a program to check whether a number is prime or not. Prompt the user for input.
3. What is Dictionary? Explain Python dictionaries in detail discussing its operations.
4. What is a function? How to define a function in python? Write a program using function to find out the given string is palindrome or not.
5. What are the basic list operations that can be performed in Python? Explain each operation with its syntax and example.

## **SECTION-B**

### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. What is flowchart? Explain the Basic design structures in Flowchart.
2. Explain the data types in python.
3. Write short notes on types of operators in python with appropriate example.

4. Explain call by value and call by reference in python.
  5. What is the difference between tuples and lists in Python?
  6. What is String? How do you create a string in Python?
  7. Explain briefly constant, variables, expression, keywords and statements available in python.
  8. Write a python program to test whether a given year is leap year or not.
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