Roll No.

Total No. of Questions: 09

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MCA (Sem.-1)

PROGRAMMING IN PYTHON

Subject Code : PGCA-1951

M. Code : 79036

Date of Examination: 16-12-2023

Time: 3 Hrs.

Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION B & C. have FOUR questions each.
- 3. Attempt any FIVE questions from SECTION B & C carrying TEM marks each.
- 4. Select atleast TWO questions from SECTION B & C.

SECTION-A

1. Write short notes on :

- What is Python's main design philosophy?
- How do you declare a variable in Python?
- what is the purpose of the print() function in Fython?
- How can you comment a single line in Python?
- What does the ten() function do in Python?
- How do you create a list in Python?
- What does a Python set data structure contains
- How do you define a function in Python?
- i) What is a module in Python?

How do you handle an exception in Python?

SECTION-B

- What is the purpose of an indentation in Python code, and how is it different from other languages?
- What are data types in Python and can you provide examples of each?
- Describe the use of list, set and dictionary comprehensions in Python.
- 5. Write a program that finds the largest element in a list of numbers without using built- in functions like max().

SECTION C

- Discuss the concept of Object-Oriented Programming (OOP) in Python. How can you create and manipulate classes and objects in Python?
- 7. Write a Python program to find the factorial of a number using a recursive function.
- 8. Create a Python class representing a basic calculator with methods for addition, subtraction, multiplication and division.
- 9. Develop a Python script that calculates the area of various geometric shapes (e.g. circle, rectangle, triangle) based on user input.

NOTE: Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

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