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Total No. of Pages : 02

Total No. of Questions : 09

MCA (Sem.-1)
PROGRAMMING IN PYTHON
Subject Code : PGCA-1951
M. Code : 79036
Date of Examination : 16-12-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. 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 TEN marks each.
4. Select at least TWO questions from SECTION - B & C.

SECTION-A

1. Write short notes on:

- a. What do you mean by precedence and associativity of operators?
- b. What are user-defined exceptions? How are they created?
- c. Write a brief note on tuples.
- d. Discuss the history of Python.
- e. How are function arguments passed by reference?
- f. Explain the usage of continue statement.
- g. What is return statement used for?
- h. How are files renamed?
- i. How is a class created?
- j. What is a global variable? How is it used?

SECTION-B

2. Discuss the main application areas of Python. Explain the installation process and environment setup of Python. List the differences between Python and other popular programming languages.
3. Write a program to illustrate difference between implicit and explicit data type conversion in Python. Discuss in detail the input and output functions available in Python.
4. What are the various iterative statements used in Python? Write a program to find the greatest number from three numbers using if-elif-else statement. Write a program to calculate the sum and average of first 10 numbers using while statement.
5. Write a detailed note on lists. Demonstrate how lists are concatenated.

SECTION-C

6. What are recursive functions? How is recursion different from iteration? Write a program to calculate the factorial of a number recursively.
7. Write a detailed note on modules explaining how they are created and imported.
8. Discuss the attributes of file object. Explain the usage of read and write methods.
9. How are the objects created and destroyed in Python? What do you mean by garbage collection?

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.