

Roll No.

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 : 16-05-2023

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 atleast **TWO** questions from SECTION - B & C.

SECTION-A

1. Write short notes :

- a. List the limiting features of Python.
- b. Illustrate how multiple assignment is done.
- c. Differentiate between type casting and type coercion.
- d. What are the various logical operators available in Python?
- e. Explain the usage of break statement.
- f. How are strings
 - i) Concatenated and
 - ii) Appended?
- g. Demonstrate how lambda functions are used?
- h. How are files deleted?
- i. What do you mean by garbage collection?
- j. How are class attributes edited?

SECTION-B

2. *“Python is a complete programming language.”* Discuss the features of Python that makes it a powerful language. What are the limitations of Python? Write about the history and development of Python over past years.
3. What are the different types of variables available in Python? Write a program to read two floating point numbers. Add these numbers and assign the result to an integer.
4. What are the various conditional branching statements used in Python? Write a program to find the greatest number from three numbers using if-elif-else statement.
5. Write a detailed note on dictionary. Discuss various functions and methods of dictionaries with the help of examples.

SECTION-C

6. What is the need of user-defined functions? How are functions defined? Write a program that adds two numbers using function.
7. Write a detailed note on exception handling. How are user-defined exceptions defined and used?
8. Discuss the object oriented features of Python. Explain the process of creation of classes.
9. Discuss how files are opened and closed in Python. Explain the various access modes.

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.