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Total No. of Pages : 02

Total No. of Questions : 07

BCA/B.Sc. (IT) (Sem-3)
PROGRAMMING IN PYTHON

Subject Code : UGCA-1914

M.Code : 78180

Date of Examination : 01-06-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write Briefly :

- a) How is class instantiation done in Python?
- b) What are the various types of files supported by Python?
- c) What are docstrings?
- d) Explain the utility of default arguments.
- e) Explain the use of return statement.
- f) Can a function call another function? Give example.
- g) Write a program to find whether a given number is even or odd using if-else statement.
- h) Write a program to extract a substring from an input string.
- i) Differentiate between = and ==.
- j) What are identifiers? List the rules to name an identifier.

SECTION-B

2. Discuss the history and origin of Python language. List the limitations of Python. Also, write about the major applications of Python.
3. Write a detailed note on operators and expressions in Python. Write about precedence and associativity of operators.
4. Write down the properties of lists. Discuss different ways in which lists can be created. With the help of an example explain the concept of nested lists.
5. What are modules? How do you use them in Python programs? What are packages in Python?
6. Explain any three built-in exceptions with relevant examples. How are user-defined exceptions created in Python?
7. Write a detailed note on garbage collection. What is the need of destroying objects?

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.