Roll No. 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: 93332

Date of Examination: 18-01-23

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. Define a class. How is class members accessed in Python?
- b. Explain the utility of assert statement.
- c. Define recursion with the help of example.
- d. Explain the utility of keyword arguments in functions.
- e. Write a program to find whether a given year is a leap year or not using if-else statement.
- f. How is bitwise operator used in Python?
- g. 'Python has developed as an open source project'. Justify this statement.
- h. What are literals? Give examples.
- i. Describe the features of Python.
- j. What is type conversion? Explain its need.

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SECTION-B

- 2. Explain the steps of installing Python. Discuss the features and limitations of Python programming language.
- 3. What are variables? What are the various data types Python variables can have? Write a program to swap two numbers using temporary variable.
- 4. Write a short note on conditional branching statements supported by Python. When should we use nested if statements? Illustrate your answer with the help of example.
- 5. What do you understand by the term arguments? How do we pass them to a function? "Arguments may be passed in the form of expressions to the called function". Justify this statement with the help of example.
- 6. Write a detailed note on opening and closing files in Python. Write about various access modes. Also, discuss the attributes of the File Object.
- 7. Discuss the object oriented nature of Python. Explain how classes are designed and how objects are created?

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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