

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Artificial Intelligence & Machine Learning) (Sem.-1)

PROGRAMMING IN PYTHON

Subject Code : UGCA1914

M.Code : 79005

Date of Examination : 17-01-23

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 :

- What is a class? How is it defined in Python?
- How are files deleted in Python?
- Differentiate between error and exception.
- Explain the utility of anonymous functions.
- Explain the utility of break and continue statements.
- Write a program to print first n numbers using range() in a for loop.
- How is string concatenation done? Give example.
- What is implicit conversion? Give example.
- List the operators supported in Python.
- How are comments used in Python script?

SECTION-B

2. Write a detailed note on datatypes in Python. Write a program to enter two integers and then perform all arithmetic operations on them.
3. Explain the syntax of while loop. Write a program that prompts the user to enter a string. The program calculates and displays the length of the string until the user enters “QUIT”.
4. What are user-defined functions? With the help of an example illustrate how they are used?
5. Explain the syntax of try-except block. What happens if an exception occurs which does not match the exception named in the except block? How can you handle multiple exceptions in a program?
6. Write a detailed note on reading and writing files in Python. Discuss various functions used to manipulate data through files.
7. Write a detailed note on Python modules. Discuss how they are created and imported?

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