

(i) Printed Pages : 3

Roll No. ....

(ii) Questions : 9

Sub. Code :

1	0	6	0	3
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Exam. Code :

5	0	0	2
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NEP U.G. Common-Skill Enhancement Course

2<sup>nd</sup> Semester

(2056)

**PYTHON PROGRAMMING**

**Paper : Python Programming**

**Time Allowed : 3 Hours]**

**[Maximum Marks : 65**

**Note :-** Attempt **five** questions in all by selecting **one** question from each Unit. Entire Question No. **9** is compulsory.

**UNIT-I**

1. (a) Explain the use of IDLE Interpreter in Python.
- (b) Explain basic Data Types available in Python. 6,7
2. (a) Differentiate between Script and Interactive modes of executing Python code.
- (b) What is a variable? What are the rules for naming a variable? How are they assigned values? 6,7

## UNIT-II

3. (a) Explain input() and print() functions in Python with suitable examples.
- (b) Write a program in Python that takes side of a square as input and prints area and perimeter of the square. 6,7
4. (a) Explain the main characteristics of lists in Python. Explain various methods to traverse a list.
- (b) Explain the use of any four String functions in Python with suitable examples. 6,7

## UNIT-III

5. (a) Write the syntax, usage and examples of 'if-else' and 'if-elif-else' used in Python.
- (b) Write a program in Python that prints whether a number n is zero, positive or negative. 6,7
6. (a) What is Looping? Write the syntax, usage and examples of for and while loops in Python with suitable examples.
- (b) What is a Function in Python? Write a function that swaps the value of two variables. 6,7

## UNIT-IV

7. (a) Explain the following in Python:
  - a. epoch
  - b. timestamp()
  - c. time()

- (b) Explain the concept of classes and objects in Python with a suitable example. 6,7
8. (a) Explain important features of dictionaries in Python with suitable examples.
- (b) Describe any four methods of dictionary with suitable examples. 6,7

**(Compulsory Question)**

9. Write short answers:
- i. Explain Boolean literals available in Python.
  - ii. Explain the scope of a variable in Python.
  - iii. What is indentation and its purpose in Python?
  - iv. Name and explain identity operators used in Python.
  - v. What is the difference between break and continue statements?
  - vi. Differentiate between Positional and Keyword arguments.

2,2,2,2,2,3