

Roll No.

Total Pages : 3

323217

May-2026

B.Sc. II SEMESTER

Basic of Python (OEC-CE-1015)

Time : 3 Hours]

[Maximum Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any **four** questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) Define primitive and non-primitive data types. (1.5)
- (b) What is the purpose of the pass statement? (1.5)
- (c) Define lambda function. (1.5)
- (d) What is the use of break and continue statements? (1.5)
- (e) Define inheritance. (1.5)
- (f) What is exception handling? (1.5)
- (g) Define actual and formal arguments. (1.5)

323217/30/333/575

[P. T. O.
11/6

- (h) List the use of the range() function? (1.5)
- (i) Define a module in Python. (1.5)
- (j) What is a Python interpreter? (1.5)

PART-B

- 2. (a) Explain different data types in Python with examples. (8)
- (b) Write a Python program which takes a string input and count number of vowels and consonants. (7)
- 3. (a) Explain for loop and while loop with syntax and examples. (8)
- (b) Write a Python program to print Fibonacci series up to n terms. (7)
- 4. Explain class, object, and constructor with example. Write a Python program to create a class student with attributes. Also display student details using a method. (15)
- 5. (a) Explain functions in Python and different types of arguments. (8)
- (b) What are modules and packages? Explain with examples. (7)
- 6. (a) Describe exception handling mechanism with try-except block. (8)
- (b) Write a python program to reverse a string without using built-in function. (7)

- 7. (a) Explain mutable and immutable data types in Python with examples. (8)
- (b) Write a Python program to find sum of digits of a number using a function. (7)