

Roll.No.

25UCSCT1E01

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.

B.Sc.Computer Science - END SEMESTER EXAMINATIONS - NOVEMBER 2025
SEMESTER - I

25UCSCT1E01 - Programming using Python

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Illustrate short notes on data types and type conversions in Python.
2. Define a function in Python. Explain the advantages of using functions with an example.
3. Define a class and an object with a suitable Python example.
4. Explain the use of try, except, and finally blocks with an example.
5. Write short notes on basic list operations and list methods with examples.
6. Solve a Python program using a recursive function to find the factorial of a number.
7. What is operator overloading? Illustrate with an example.
8. Differentiate between runtime errors and syntax errors.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Explain a Python program that demonstrates arithmetic, relational, and logical operations.
10. Classify dictionary creation, accessing, and updating operations in detail.
11. Differentiate the process of importing modules and packages in Python with examples.
12. Classify types of inheritance with examples.
13. Distinguishing detail, the file input/output system in Python. Discuss file modes, reading, writing, and moving within files using suitable examples.
