

Roll.No.

25UCGCT1002

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.Cs with CGS - END SEMESTER EXAMINATIONS - NOVEMBER 2025

SEMESTER - I

25UCGCT1002 - Python Foundation to Mastering

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Describe the types of operators in Python with suitable examples.
2. Illustrate class and object with an example in Python.
3. Solve Python code to read a text file and display its content.
4. Describe a simple Streamlit app with a title, text, and a button.
5. Define a list in Python. Explain how to create, index, and slice a list with examples.
6. Solve method overriding with a simple code.
7. Write a python program that uses the math module to read a number from the user and display.
8. Examine a Pandas Data Frame with 3 rows and 3 columns and display it.

Section C

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

9. Explain in detail the control flow statements in Python:
a.) Conditional statements b.) Looping statements
10. Explain the concept of dictionaries in Python. Write a program to add, modify, and delete key-value pairs.
11. Explain inheritance in Python with examples of single, multiple, and multilevel inheritance.
12. Classify exception handling with try, except, and finally.
13. Examine a Pandas Data Frame, add a new column, and visualize it with a Seaborn chart.
