

Roll.No.

25UAICT1001

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 AI. - END SEMESTER EXAMINATIONS - NOVEMBER 2025
SEMESTER - I

25UAICT1001 - Python Programming

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Explain the different data types available in Python and illustrate with suitable examples.
2. Write a Python program to find the sum of all even numbers between 1 and 50 using loops.
3. Differentiate between user-defined functions and built-in functions in Python.
4. Describe the different operations performed on a Python dictionary with suitable examples.
5. Write a Python program to read a text file and count the number of words in it with example.
6. Write a Python program to find the largest of three numbers using if-elif-else statement.
7. Different types of function arguments in Python?
8. Write a Python program to read a text file and count the number of lines, words, and characters. Explain how exceptions can be handled during file operations.

Section C

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

9. Examine the steps involved in installing Python and writing your first Python program.
10. Explain the use of conditional and looping statements in Python with sample programs for if-elif-else, for, and while loops.
11. Define recursion construct a python code to find the factorial a given number using recursion.
12. Determine their creation, operations, and common methods of lists with appropriate examples.
13. Write a Python program that reads data from a text file and handles possible exceptions using try, except, and finally blocks.
