

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) END SEMESTER EXAMINATIONS NOVEMBER -2023

SEMESTER - II

21UCSCT2003 - Programming Using Python

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section B

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

1. What are Python types? Explain with an example.
2. Describe the recursive function using factorial series.
3. Classify the class variables from function variables using employee details.
4. Explain the user defined exceptions for division by zero
5. Illustrate the Set Operations using an example set function.
6. Apply the operator overloading function for adding 10% of price using classes and objects for product management system.
7. Explain the abstract classes with an example.
8. Determine the file opening modes for writing "hai python" in "A1.txt".

Section C

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

9. Explain the unconditional transfer statements using an example.
10. Prepare an example program for user defined generator in Python.
11. Examine the types of arguments along with lambda functions.
12. Prepare an example module for accessing object and class attributes.
13. Ascertain Serialization and Deserialization, Serialization of User-defined Types with example modules.
