

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.(DS) - END SEMESTER EXAMINATIONS APRIL-2023

SEMESTER - I

22UDSCT1001 - Introduction to Data Science

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section B

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

1. What is Data? List the various types of data.
2. Describe the concept of dictionaries in python with example.
3. Relate the features of Numpy and Pandas libraries in python.
4. Sketch the steps to plot a graph with labels, color, legends using matplotlib package for any dataset.
5. Illustrate the concept of functions in python with an example.
6. Prepare the list of various string processing methods available in python with examples.
7. Show the various statistical functions available in python.
8. Define Data Visualization. Differentiate the various graphs available in seaborn package.

Section C

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

9. Define Big data. Explain the various characteristics of Big data.
10. Classify the various control statements in python with examples.
11. Distinguish the list and tuple data types with examples.
12. Apply the creation and manipulation of data frames to any real dataset.
13. Assess the various methods available in Matplotlib package with examples.
