

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.

M.Sc.(Computer Science) END SEMESTER EXAMINATIONS NOVEMBER - 2023
SEMESTER - II

20PCSCT2006 - Data Science Using Python

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Explain Lists and Tuples in detail.
2. Describe Histograms.
3. Classify the categories of Machine learning.
4. Explain about Decision Trees.
5. List and explain the different datatypes in Python.
6. Relate the concept of General Matplotlib tips.
7. Illustrate about Bayesian Classification.
8. Determine the K-means clustering algorithm.

Section C

I - Answer any **TWO** questions ($2 \times 10 = 20$ Marks)

9. Illustrate the various looping statements in Python with an example.
10. Relate the basics of Numpy Arrays.
11. Examine Visualizing errors in detail.
12. Evaluate the concept of Simple Linear regression.

II - Compulsory question ($1 \times 10 = 10$ Marks)

13. Determine the Principle component analysis.
