

**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. - END SEMESTER EXAMINATIONS APRIL - 2022

SEMESTER - II

20PCSCT2006 - Data Science Using Python

Total Duration : 3 Hrs.

Total Marks : 60

Section A

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

1. Apply the basics of Python like variables, operators in simple Python program.
2. Apply various Histograms in python code.
3. Describe Bayesian classification.
4. Explain K-means Clustering.
5. Relate data manipulation with pandas in python code.
6. Prepare simple scatter plot in python.
7. Apply simple linear regression in code.
8. Examine Principal component analysis.

Section B

Part A

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

9. Describe Conditionals and loops with example code.
10. Substitute Data Indexing & Selection in python program with necessary syntax and code.
11. Prepare Simple line plots with your own data and explain it with python code.
12. Examine SVM with example code.

Part B

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

13. Diagnose simple weather report using Decision trees.
