

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. Comp Sci - END SEMESTER EXAMINATIONS APRIL - 2024

SEMESTER - II

**23PCSCT2006 - 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. Describe NumPy Array Join and Split with examples.
2. Explain pivot table creation in python with example.
3. Classify and explain non-linear classification algorithms.
4. Describe the analytics provided by the twitter in account home page.
5. Describe the basics of Pandas library in python.
6. Explain the functionalities of data wrangling in python.
7. Explain the terminologies in decision trees.
8. Justify how the analysis of reviews and ratings of a website will help a business in decision making with example.

### Section C

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

9. Explain the stages of data science project.
10. Relate how REST architecture is useful in python for interacting with HTML.
11. Distinguish various plotting functions available in pandas library.
12. Compare and contrast the binary and multi-class classifiers.

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

13. Apply any five exploratory data analysis functions in Iris dataset from Kaggle.

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