

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.(Chemistry) - END SEMESTER EXAMINATIONS APRIL - 2023

SEMESTER - IV

**20PCHET4004 - RESEARCH METHODOLOGY**

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

**Section B**

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

1. Describe the Features of good research design.
2. Write short notes on primary and secondary data.
3. How correlation is different from regression?
4. Describe the various steps involved in report writing.
5. Explain the importance of review of literature in research.
6. Discuss the simple sampling techniques.
7. How do you find the line of best fit using the least square method?
8. Why people plagiarise?

**Section C**

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

9. Define Research. Discuss its objectives and types.
10. Explain different ways of organizing the literature review.
11. Describe the various methods of data collection and examine its relative merits.
12. Discuss about the type of errors and standard deviation.

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

13. Explain in detail the various procedures in chronological order for patent filling in Indian context.

\*\*\*\*\*