

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.PBPBT - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - III

24PPBET3A04 - Bioinstrumentation and Bioinformatics

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Illustrate about the electrophoresis.
2. Explain about colorimeter with good example.
3. Relate the application of SEM & TEM mention its uses.
4. Classify the protein sequence database.
5. Differentiate Pharmacogenomics and Pharmacogenetics.
6. Discuss the working principle of column chromatography.
7. Write the scope of bioinformatics.
8. Draw a neat sketch of light microscope and label the parts.

Section C

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

9. What are the key compare and principles of HPLC.
10. Explain briefly about mass spectroscopy.
11. Write briefly about confocal Laser scanning microscope.
12. Classify the biological database.

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

13. What is phylogenetic analysis? explain in detail about its methods of analysis.
