

Roll.No.

24PPBET3A04

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 - NOVEMBER 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. Write about centrifugation techniques and its types.
2. Write in detail High Performance Liquid Chromatography (HPLC).
3. Explain about UV-Visible Absorption Spectrophotometry.
4. Write in detail Confocal Laser Scanning Microscopy.
5. Explain about Light Microscopy.
6. What is Genomics and Proteomics?
7. Discuss Target Validation.
8. What is cladistics method of analysis.

Section C

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

9. Write about the SDS PAGE Electrophoresis.
10. Different between Mass Spectrophotometry and NMR Spectrophotometry.
11. Write an essay on Scope of Bioinformatics.
12. Write an essay on Drug Discovery.

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

13. Draw a labelled diagram and explain Scanning and Transmission Electron Microscopy.
