

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 - NOV' 2024

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. Describe High Performance Liquid Chromatography (HPLC).
2. Explain the techniques involved in Thin Layer Chromatography.
3. Describe Fluorescent Spectroscopy.
4. Explain in detail NMR Spectrophotometry.
5. Explain Light Microscopy.
6. Apply and Describe the role of NCBI.
7. Explain the Scope of Bioinformatics.
8. Organize and Describe the different approaches to Drug Discovery.

Section C

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

9. Illustrate in detail the separation techniques.
10. Determine and explain Spectroscopic techniques:
 1. Colorimetry
 2. UV-Visible Absorption Spectrophotometry
11. Apply and Describe Micro and Macrophotography.
12. Evaluate and explain the Methods of Phylogenetic Analysis.

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

13. Ascertain and explain Biological data bases.
