

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 - 2024

SEMESTER - III

22PPBET3004 - Bioinstrumentation and Bioinformatics

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. What is the need for separation techniques in life sciences?
2. Describe the principle of microphotography.
3. Classify biological databases.
4. Explain the need for phylogenetic analysis.
5. Interpret the importance of colorimetry.
6. Predict the principle of fluorescence microscopy.
7. Describe the scope of Bioinformatics.
8. Differentiate pharmacogenomics and pharmacogenetics.

Section C

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

9. Explain the working principle of electrophoresis.
10. Classify the various spectroscopic techniques.
11. Distinguish SEM from TEM.
12. Compare genomics and proteomics.

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

13. Assess the approaches and the process of drug discovery.
