

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.

B.Sc. (PBPB) END SEMESTER EXAMINATIONS NOVEMBER - 2023

SEMESTER - V

**20UPBCT5011 - Bioinstrumentation, Bioinformatics and Biostatistics**

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

### Section B

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

1. Explain the basic principles, functions and types of microscope in detail.
2. Elucidate the salient features of Scanning Electron Microscope.
3. Evaluate the method for the preparation of Whole Mount.
4. List down the importance of Fixatives.
5. Explain the basic principles and applications of Chromatography.
6. Discuss the importance of DDBJ.
7. Write about the importance of NCBI-Entrez.
8. Summarize the salient features of Test of significance.

### Section C

Answer any **THREE** questions ( $3 \times 10 = 30$  Marks)

9. Explain the role of Transmission Electron Microscope (TEM) in structure analysis of particles.
10. Describe the features of any two types of Microtome.
11. Discuss the Basic principles of Spectrophotometer – Beer - Lambert's Law.
12. Enumerate the various structural features of Swiss prot., Prosite with a neat sketch in detail.
13. Summarize the Calculation of Averages or Central Tendency Mean – Median – Mode.

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