

Roll.No.

20UPBCT5011

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 PBPBT - END SEMESTER EXAMINATIONS - NOVEMBER 2025

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 light microscopy with line diagram.
2. Write about Maceration technique.
3. Explain Microtome.
4. Write short notes on Gas Chromatography and its applications.
5. Write notes on NCBI-Entrez.
6. Explain Swiss port.
7. What is Chi-Square Test in details
8. How to calculate Averages and give suitable Example

### Section C

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

9. Explain Scanning Electron Microscope (SEM) and its biological uses.
10. How to prepare Paraffin blocks in plant specimens.
11. Write in details about principles and applications of Spectrophotometer.
12. Deeply discuss application of bioinformatics in various fields.
13. How to find Mean – Median – Mode, and Standard Deviation.

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