

**M.Sc. DEGREE EXAMINATION, NOVEMBER 2018**  
**II Year III Semester**  
**Core Elective -IV**  
**BIOINSTRUMENTATION AND BIOINFORMATICS**

**Time : 3 Hours**

**Max.marks :75**

**Section A** ( $10 \times 2 = 20$ ) Marks

Answer any **TEN** questions

1. Centrifugation
2. Chromatography
3. Colorimetry
4. Mass spectrophotometry
5. TEM
6. Photography
7. NCBI
8. Swissport
9. SNP
10. Toxicology
11. Genomics
12. HPLC

**Section B** ( $5 \times 5 = 25$ ) Marks

Answer any **FIVE** questions

13. Explain briefly Paper Chromatography
14. Write short notes on Electrophoresis
15. Draw the outline structure of Light microscope
16. What is sequence analysis?
17. Explain methods of Phylogenetic Analysis
18. Briefly write about Phase contrast Microscopy
19. Write short notes on Pharmacogenetics

**Section C** ( $3 \times 10 = 30$ ) Marks

Answer any **THREE** questions

20. Write a detailed account on Column Chromatography
21. Explain Fluorescent Spectroscopy
22. Explain Micro and Macrophotography
23. Write notes on Protein Database
24. Explain Target identification and validation in drug discovery.

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