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. (PBPB) END SEMESTER EXAMINATIONS NOVEMBER - 2023
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. Explain thin layer chromatography.

2. Describe the working principle of fluorescence microscopy.

3. How do you predict the protein structure using protein databases?

4. Illustrate the process of drug designing.

5. When do you use the HPLC technique? Explain its working principle.

6. How do you differentiate micro and macro photography?

7. Sketch the framework of NCBI.

8. Examine the methods of phylogenetic analysis.

Section C

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

9. How do you prepare the sample for separation using electrophoresis?

10. Write the applications of UV-Visible spectrophotometer.

11. Distinguish transmission from scanning electron microscopy.

12. Determine the usage of homology in sequence analysis.

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

13. Differentiate phenetic and cladistics methods of analysis.

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