

(20518)

Roll No. _____

B.Sc.(Biotech.)-III Year

NS-3479**B. Sc. (Biotechnology) Examination, May 2018****Genomics and Proteomics****(B-307)****(New)***Time : Three Hours]**[Maximum Marks : 75***Note :** Attempt any *Five* questions. All questions carry equal marks.

1. Explain DNA sequencing techniques in detail. 15
2. Write an essay on applications of Proteomics? 15
3. Explain computer aided drug designing in detail. 15
4. Elaborate the concept of structural genomics. 15
5. Explain the strategies of sequencing the entire genome of an organism. 15

6. Write notes on the following: $7\frac{1}{2} \times 2 = 15$
 - (a) Protein-protein interactions
 - (b) QSAR.
7. Write explanatory notes on the following: $7\frac{1}{2} \times 2 = 15$
 - (a) Pharmacogenomics
 - (b) EST contigs.
8. What is Proteome ? Explain web based tools for proteomic data analysis. 15
9. Write notes on the following: $7\frac{1}{2} \times 2 = 15$
 - (a) MALDI
 - (b) Genetic map.
10. Describe the various techniques of Proteomics in cancer research. 15