

NS-3479

B.Sc. (Biotechnology)

Examination, June-2022

GENOMICS AND PROTEOMICS

(B-307)

(B.Sc. Biotech.)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt any **five** questions. **All** questions carry equal marks.

1. Write an essay on various applications of Proteomics for agriculture crop improvement.
2. What is genome sequencing. Describe in detail the Maxam Gilbert method of genome sequencing.

3. Write notes on:
 - (a) EST Centigs
 - (b) Unigene data set
4. Give detailed account of yeast two hybrids system and their applications.
5. Write notes on:
 - (a) DNA-Protein interaction
 - (b) Pharmacogenomics
6. Write notes on:
 - (a) MALDI
 - (b) Clone by clone sequencing
7. What is computational genomics. Describe in detail its contribution in Biological research.
8. Write notes on:
 - (a) Genetic maps
 - (b) DNA based Phylogenetic trees

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~~9~~ Describe various types of cancer and use of techniques of Proteomics in Cancer research.

~~10~~. Write notes on:

(a) DNA polymorphism and treatment of diseases

(b) DNA chips and micro arrays