

B.Sc. (Bio-Tech.)- III Year

Laiba Khan

NS-3479

B.Sc. (Biotechnology) Examination,

June-2023

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 Yeast, two hybrids, system and their application.
2. What do you understand by Cancer ? Describe its various types and use of proteomics techniques in cancer research.

NS-3479

[P.T.O.]

(2)

3. Write notes on :

- (a) DNA chips and Micro arrays
- (b) Computer aided drug designing.

Done 4. What is genome sequencing ? Give a detailed account of Maxam-Gillbert method of genome sequencing.

5. Give a detailed account of various applications of proteomics for Agriculture crop improvement.

Done 6. Write note on :

- (a) DNA polymorphism and treatment of diseases.
- (b) Unigene dataset.

7. Write an essay on computational genomics and describe in detail its contribution in biological research.

8. Write notes on :

- (a) EST contigs
- (b) Genetic maps

(3)

9. Write notes on :

- (a) Automatic sequencing
- (b) Evolution of nuclear and cellular genomes

Done 10. Write notes on :

- (a) Pharmacogenomics and industry
- (b) SALDI