

Roll No.

DD-804

M. Sc. (Fourth Semester) EXAMINATION, 2020

BIOTECHNOLOGY

Paper Fourth

(Functional Genomics and Proteomics)

Time : Three Hours

Maximum Marks : 80

Note : Attempt all the *five* questions. All questions carry equal marks.

1. Write notes on the following :
 - (a) Future of Genomics
 - (b) EST
 - (c) SDS-PAGE
 - (d) Protein databases

Unit—I

2. Discuss structural organization of nuclear genome of eukaryotes.

Or

Write short notes on the following :

- (a) Chloroplast genome
- (b) Gene medicine

[2]

Unit—II

3. Discuss human genome project and its major outcomes.

Or

Write short notes on the following :

- (a) Comparative genomics in eukaryotes
- (b) SNPs

Unit—III

4. Describe practical applications of proteomics.

Or

Write short notes on the following :

- (a) Structural proteomics
- (b) Functional proteomics

Unit—IV

5. Write a technical note on future of proteomics.

Or

Discuss methods for expression analysis and characterization of proteins.