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

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.

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