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NY—38—2023

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Second Year) (Fourth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New/CBCS Pattern)

BIOTECHNOLOGY

Paper–BT–XIV

(Computational Biology)

(Wednesday, 6-12-2023)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—75

N.B. :— (i) Attempt all questions.

(ii) All questions carry equal marks.

(iii) Illustrate your answers with suitable diagram, scheme etc.

1. Describe in detail Sequence database.

Or

Give an account of Biological Databases.

2. Describe Approaches for analysis and interpretation of Sequence Data.

Or

Give a detailed classification of Proteins.

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(2)

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3. Describe Databases and search engines in proteomics.

Or

Describe the procedure of 2D PAGE.

4. Describe Protein evolution from exon shuffling.

Or

Describe types and applications of microarrays.

5. Write short notes on (any *three*) :

(a) Graphical representation of data

(b) Median

(c) Standard deviation

(d) Variance.

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