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25-BT-44

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION
MAY - JUNE 2025**

BIOTECHNOLOGY

Paper - IV

[Genomics, Proteomics, IPR and Biosafety]

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt all five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Explain Enzymatic DNA Sequencing with application.

OR

Give detail account on chemical synthesis of Oligonucleotides.

Q. 2 Describe RFLP in detail.

OR

Write note on following –

- i) Gene Therapy.
- ii) PCR

Q. 3 Explain 2 – D electrophoresis of protein.

OR

Attempt short notes on –

- i) MALDI – TOF.
- ii) C – DNA array.

Q. 4 Explain types of patent applications.

OR

Write an essay on Intellectual Property Rights.

Q. 5 Explain biosafety level of specific micro organism and infected animals.

OR

GMO application in food and agriculture.