

G 8233



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Reg. No.....

Name.....

M.Sc. (MEDICAL MICROBIOLOGY) DEGREE EXAMINATION, JULY 2025

First Year

BIOTECHNOLOGY AND MOLECULAR BIOLOGY

(2024 Admissions–Regular, 2021–23 Admissions–Supplementary,
2018–20 Admissions–Mercy Chance)

Time : Three Hours

Maximum Marks : 100

*Answer **all** questions.*

Draw diagrams wherever necessary.

I. Essay :

- 1 Describe methods of gene transfer.
- 2 Explain principle and types of chromatography.

(2 × 20 = 40)

II. Short Essays :

- 1 Explain blotting techniques and mention the applications.
- 2 Write about methods for gene therapy.
- 3 Describe hybridoma technology.
- 4 Explain gene regulation in Eukaryotes.

(4 × 10 = 40)

Turn over





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III. Write short notes on :

- 1 Write an account on pharmaceutical products from DNA technology.
- 2 Write about human genome sequencing.
- 3 Write an account on DNA fingerprinting.
- 4 Explain transcription in prokaryotes.

(4 × 5 = 20)

