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Reg. No.....

Name.....

M.Sc. (MEDICAL MICROBIOLOGY) DEGREE EXAMINATION, JULY 2026

First Year

BIOTECHNOLOGY AND MOLECULAR BIOLOGY

(2025 Admission Regular / 2022-24 Admissions Supplementary / 2021 Admission First
Mercy Chance / 2020 Admission Second Mercy Chance / 2019 Admission
Third Mercy Chance)

Time : Three Hours

Maximum Marks : 100

*Answer **all** questions.*

Draw diagrams wherever necessary.

I. Essays :

- 1 Explain the production and applications of monoclonal antibodies
- 2 Describe recombinant DNA technology and how it can be used for curing diseases citing examples

(2 × 20 = 40)

II. Short Essays :

- 1 Explain principle, types and applications of chromatography
- 2 Explain the replication of DNA. Point out how the structure of DNA helps in replication
- 3 Write about DNA fingerprinting and its applications
- 4 Describe gene regulation in Eukaryotes

(4 × 10 = 40)

III. Write short notes on:

- 1 Write an account on types of vaccines
- 2 Write an account on human genome project and its application
- 3 Explain analysis of DO, BOD, COD and coli form test
- 4 Explain protein synthesis.

(4 × 5 = 20)

