

QP Code: 101109

Reg. No.:.....

**PG Degree Supplementary Examinations in Microbiology (MD)
April 2026**

Paper I – General Microbiology and Immunology

Time: 3 hrs

Max marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay: (20)

1. Classify immunodeficiency disorders with examples. Describe the approach to the identification and laboratory diagnosis of a case suspected to have a disorder of the complement system

Short essays: (8x10=80)

2. Principle and application of MALDI-TOF in diagnostic microbiology
3. Discuss the methods of detection of antibiotic susceptibility
4. Discuss methods of gaseous sterilisation. Add a note on quality control
5. Discuss the different methods of genetic transfer in a bacterial cell with examples
6. Discuss the types of T lymphocytes and their functions
7. Discuss the methods and application of HLA typing
8. Discuss the importance of one health approach in preventing antimicrobial resistance
9. Discuss the role of cytokines in health and disease
