

**PG Degree Regular/Supplementary Examinations in Microbiology
(MD) January 2025**

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. Define and classify hypersensitivity. Discuss the type 1 hypersensitivity reactions and their clinical applications.

Short essays:

(8x10=80)

2. Prevention of allograft rejection.
3. Applications of chemical disinfectants in hospital.
4. Monoclonal antibodies.
5. Microbial virulence factors.
6. Primary T cell immunodeficiency diseases.
7. Bacterial spore.
8. Biosafety cabinets.
9. List the antibiotics that act on bacterial ribosomes and discuss the resistance mechanisms exhibited by bacteria against them.
