

QP Code: 101109

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Microbiology  
(MD) May 2022**

**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 sterilisation. Enumerate the various methods of sterilisation using heat. Describe in detail the functioning of an autoclave. Add a note on its quality control.

**Short essays: (8x10=80)**

2. Compare and contrast exotoxins and endotoxins
3. Explain Graft Versus Host (GVH) reaction. Add a note on HLA (Human Leucocyte Antigen) typing.
4. Type II hypersensitivity
5. Classical pathway of complement activation
6. Role of microbiologist in hospital infection control committee
7. Transposon
8. Draw a neat labelled diagram of IgM. Add a note on its functions.
9. Flow cytometry

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