

QP Code: 101109

Reg. No.:.....

**PG Degree Supplementary Examinations in Microbiology (MD)  
November 2021**

**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. Enlist the general properties of Cytokines. Enumerate those which play a role in acute phase response. Add a note on how they combat infection.

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

2. Biosafety cabinets and their performance testing.
3. Immunomodulators.
4. Superantigens and their pathogenesis.
5. Nongenetic basis of drug resistance.
6. Role of B cells in Immune response.
7. Anaerobic culture methods.
8. Testing for allergens.
9. Fluorescent microscopy.

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