

QP Code: 104385

Reg. No.....

**First Year M.Sc. MLT Degree Supplementary Examinations
January 2025
(Microbiology)
Paper IV - 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*

Essays:

(10x10=100)

1. Cellular immunodeficiency: Types, infection risk and lab diagnosis.
2. Lymphoid organs
3. Define and Classify immunity. Describe acquired immunity in detail. (4+6)
4. Discuss autoimmunity. Add a note on organ specific autoimmune diseases. (7+3)
5. Heterophile agglutination: Principle and applications.
6. Graft-versus-host disease (GvHD)
7. What are cytokines. Add a note on different types of cytokines and its function. (3+7)
8. Explain in detail about Hypersensitivity and describe type IV hypersensitivity reactions (5+5)
9. Production of Monoclonal antibodies and their applications.
10. Immunofluorescence: Principle and application with examples.
