

QP Code: 104385

Reg. No.....

**First Year M.Sc. MLT Degree Supplementary Examinations April 2019
(Microbiology)
Paper IV - Immunology**

Time: 3 hrs.

Max. marks: 100

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essays:

(10x10=100)

1. Innate immunity
2. Principle of immunodiffusion and its types.
3. What are the types of graft rejection. Describe briefly on the laboratory tests used to determine histocompatibility.
4. Antigen presenting cells
5. List three systemic autoimmune diseases and describe their mechanisms
6. What are the biological classes of antigens. Describe briefly on super antigens.
7. Classical compliment pathway. List two complement deficiency diseases
8. Enzyme-Linked Immunospot (*ELISpot*) assay and its application.
9. Cell mediated immunity
10. Define and classify hypersensitivity. Discuss type II & III hypersensitivity reactions
