

QP Code : 104385

Reg . No.....

**First Year M.Sc. MLT Degree Examinations – November 2015  
(Microbiology)**

PAPER – IV IMMUNOLOGY

**Time : 3 hrs.**

**Max. marks : 100**

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

**Essays:**

**(10x10 = 100)**

1. Immunoglobulins: structure and functions.
2. Describe the biological effects of complement and add a note on deficiencies of complement system.
3. Central lymphoid organs.
4. Monoclonal antibodies and its applications.
5. Discuss tumour immunity.
6. Type I hypersensitivity.
7. Describe the structure and functions of class I and class II MHC molecules.
8. Enzyme linked immunosorbent assay.
9. Describe flow cytometry and its applications.
10. Coombs test.

\*\*\*\*\*