QP Code: 104385 Reg. No......

First Year M.Sc. MLT Degree Regular/Supplementary Examinations April 2021 (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. Differentiate between active and passive immunity with examples.
- 2. Type IV hypersensitivity in detail with suitable examples.
- Enzyme Linked Immunosorbent Assay (ELISA)- principle and applications in Microbiology.
- Describe biological effects of complement. Add a note on complement deficiency diseases.
- 5. Immunological tolerance and its clinical applications.
- 6. Principle and production of monoclonal antibody and its applications.
- 7. HLA (Human Leukocyte Antigen) typing.
- 8. Structure and functions of Immunoglobulin M.
- 9. Mechanisms of autoimmunity.
- 10. Conjugate vaccines.
