First Year M.Sc. MLT Degree Supplementary Examinations March 2024 (Microbiology) Paper IV - Immunology

Time: 3 hrs.

- 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:

- 1. Define autoimmunity. What are the features of autoimmunity. Write about organ specific autoimmune disorders. (2+4+4)
- 2. Classify hypersensitivity reactions. describe Type 1 hypersensitivity reactions in detail (4+6)
- 3. Discuss the structure and functions of Major histocompatibility complex. Add a note on MHC restriction. (6+4)
- 4. Enzyme linked immunosorbent assay: Principle, generations and application.
- 5. Define antigen. What are the factors affecting the antigenicity. Add a note on super antigens. (2+4+4)
- 6. Write an essay on activation and regulation of complement path ways.
- 7. Describe general structure of an antibody. Write about IgM. Add a note on (4+4+2)abnormal immunoglobulin.
- 8. Coombs Test: Principle and application.
- 9. Viral vector-based vaccines: Principle and application with example.
- 10. Interferon Gamma assay: Principle and application with an example.

QP Code: 104385

Max. marks: 100

(10x10=100)

Reg. No.....