



M.Sc. II Semester Degree Examination, Sept./Oct. - 2024

MICROBIOLOGY

MB DSE : Immunology and Immunodiagnostics

(NEP)

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions with questions **no.1 (Q1) compulsory**, each question carries **equal** marks.

1. Describe the cells and organs of the immune system. **14**
2. Write an account on activation, proliferation and differentiation of T Lymphocytes. **14**
3. Explain the differences between Monoclonal and Polyclonal Antibodies. **14**
4. Discuss the detailed note on AIDS. **14**
5. Describe the Ouchterlony double diffusion. **14**
6. (a) Describe types and properties of antigens. **5**
(b) Explain the typical structure of an antibody. **5**
(c) Write a note on production and application of Monoclonal antibodies. **4**
7. (a) Briefly discuss tumor antigens. **7**
(b) Explain mechanism and types of hypersensitivity. **7**
8. (a) Explain principle of antigen antibody reactions. **5**
(b) Write a note on complement fixation. **5**
(c) Write a note on Immuno-electrophoresis. **4**

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