



M.SC. II Semester Degree Examination, October - 2023

IMMUNOLOGY AND IMMUNODIAGNOSTICS

BIOTECHNOLOGY

(NEP)

Time : 3 Hours

Maximum Marks : 70

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

(ii) Draw neat diagrams wherever necessary.

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1. Explain in detail about Organs of the immune system. **14**
 2. Discuss in detail about Antibody diversity and its models, organization of Ig genes. **14**
 3. Write a note on Production of polyclonal and monoclonal antibodies and its applications. **14**
 4. Explain in detail about :
 - (a) Cancer immunotherapy **7**
 - (b) Autoimmune diseases **7**
 5. Write in detail about Immunoglobulins; structure, classes and distribution of antibodies. **14**
 6. (a) Discuss in detail about Complement system classical pathway. **7**
(b) Write a note on Cell mediated cytotoxicity. **7**
 7. Discuss about Immune response to tumors and tumor evasion of the immune system. **14**
 8. (a) Principles of cell signalling **5**
(b) Antigen processing **5**
(c) CD4 cells **4**

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