

M.Sc. (Biotechnology) (NEP Pattern) Semester-II
NEP-97 / 02MSCBT02 : Immunology & Immunological Techniques

P. Pages : 1

Time : Three Hours



GUG/S/25/15334

Max. Marks : 80

1. Discuss in detail about cells involved in immune response and their role. **16**

OR

a) Write a detailed note on acquired immunity. **8**

b) Discuss in details about different classes of immunoglobulins. **8**

2. Discuss in detail about mechanism of cell mediated immunity. **16**

OR

a) Discuss in detail about MHC-I and MHC-II molecules. **8**

b) Write a detailed note on Humoral immunity. **8**

3. What are monoclonal antibodies? Discuss in detail about hybridoma technology for production of monoclonal antibodies. **16**

OR

a) Write a detailed note on agglutination reaction. **8**

b) Write in detail about principle and procedure of ELISA. **8**

4. What is vaccine? Discuss in detail about principle and significance of vaccination. **16**

OR

a) Write a detailed note on concept of autoimmunity. **8**

b) Discuss types of hypersensitivity in detail. **8**

5. Write a note on:

a) MALT. **4**

b) Cell-cell co-operation. **4**

c) Complement fixation test. **4**

d) Autoimmune diseases. **4**
