

M.Sc.(Biotechnology) CBCS Pattern Semester-II
PSBIT-106 - Paper-II : Immunology and Immunological Techniques

P. Pages : 1

Time : Three Hours



GUG/W/23/11192

Max. Marks : 80

1. What are lymphoid organs? Discuss the structure and function of primary lymphoid organs in detail. **16**

OR

a) Give a detailed account on secondary lymphoid organs. **8**

b) Discuss the different classes of immunoglobulins. **8**

2. What is cell mediated immunity? Discuss the mechanism of cell mediated immunity in detail. **16**

OR

a) Give a detailed account on MHC molecules. **8**

b) Describe the role of cytokines in cell to cell co-operation. **8**

3. Write in details about mechanism of agglutination and its applications in serology. **16**

OR

a) Write a detailed account on ELISA and its applications. **8**

b) Discuss the mechanism and significance of complement fixation test. **8**

4. What is Hypersensitivity? Discuss the types of hypersensitivity in details. **16**

OR

a) Give a detailed account on autoimmune diseases. **8**

b) Discuss about principle and significance of vaccination. **8**

5. Solve the following.

a) Discuss the role of lymphocytes in immune response. **4**

b) Write a note on Humoral immunity. **4**

c) Give a brief account on complement fixation test. **4**

d) Give an account on immunological tolerance. **4**
