

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

P. Pages : 1

Time : Three Hours



GUG/S/23/11192

Max. Marks : 80

Notes : 1. All questions are compulsory and carries equal marks.

1. Discuss the various organs involved in immune response. 16
- OR**
- a) Write different classes of immunoglobulins and their functions. 8
- b) Differentiate between Innate and Acquired immunity. 8
2. Explain the structure and functions of MHC-I and MHC-II molecules. 16
- OR**
- a) Describe mechanism of cell mediated immunity. 8
- b) Write a note on activation of B cell. 8
3. Discuss the mechanism and applications of agglutination reaction. 16
- OR**
- a) Explain Hybridoma technology. 8
- b) Explain complement fixation test. 8
4. Describe the general features and mechanism of type-I Hypersensitivity. 16
- OR**
- Add a note on
- a) Addison's disease. 8
- b) Significance of vaccination. 8
5. Write short note on followings.
- a) Acquired Immunity. 4
- b) T-cell activation. 4
- c) ELISA 4
- d) Immunological tolerance. 4
