

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**
