

M.Sc. (Microbiology) (CBCS Pattern) Semester-IV  
**PSMBT-15 - Paper-III : Immunology**

P. Pages : 1

Time : Three Hours



**GUG/W/24/11410**

Max. Marks : 80

---

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

- 1.** Describe the structure and function of secondary lymphoid organs. **16**
- OR**
- a) Write about structure and function of MHC complex and MHC molecule. **8**
- b) Write a note on – thymus dependent antigens. **8**
- 2.** Describe the mechanism and applications of Agglutination reaction with example. **16**
- OR**
- a) Describe the production of monoclonal antibodies by hybridoma technology. **8**
- b) Explain the mechanism of complement fixation test with example. **8**
- 3.** Describe type I and type II hypersensitivity reactions with example. **16**
- OR**
- a) Describe the concept of Autoimmunity and write its causes with example. **8**
- b) Write a note on – Immunology of Graft rejection. **8**
- 4.** Describe the role of biochemical and ‘immunological tumour markers in tumour diagnosis. **16**
- OR**
- a) Write a note on- specific immunosuppressive therapy. **8**
- b) Describe the mechanism behind the cause of ‘Myasthenia gravis’. **8**
- 5.** Write an account on-
- a) Killer cells. **4**
- b) Immunofluorescence. **4**
- c) Hashimoto’s disease. **4**
- d) Hodgkin disease. **4**

\*\*\*\*\*