

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

P. Pages : 1

Time : Three Hours



**GUG/S/23/11410**

Max. Marks : 80

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Note : All questions are compulsory and carry equal marks.

1. Describe the structure and function of secondary lymphoid organ. **16**
- OR**
- a) Describe the structure and function of MHC complex. **8**
- b) Describe the classical pathway of complement system. **8**
2. Describe the structure and function of five immunoglobulin classes. **16**
- OR**
- Explain the mechanism and applications of Agglutination reaction.
3. Describe the immediate type of hypersensitivity with example. **16**
- OR**
- a) Explain the causes of Autoimmunity with example. **8**
- b) Explain B-cell related immunological tolerance. **8**
4. Describe the mechanism of host's immune response to tumour. **16**
- OR**
- Write an account on:
- a) Immunosuppressive therapy **8**
- b) Biochemical tumour markers. **8**
5. Write in brief:
- a) Cellular immune response. **4**
- b) Western blotting. **4**
- c) Myasthenia gravis **4**
- d) Hodgkin disease **4**

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