

**M.Sc. II Semester Degree Examination, September/October - 2022****MICROBIOLOGY****Environmental Microbiology**

Time : 3 Hours

Maximum Marks : 70

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**Note :** Answer **any five** of the following questions with questions No.1 is **Compulsory**.  
Each question carries **equal** marks.

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1. Explain in detailed the cell mediated immune response of immune system. **14**
2. (a) Antigen processing and presentation. **7**  
(b) Structure and function of T-cell receptors. **7**
3. Explain the differen types and biological functions of immunoglobulins. **14**
4. (a) Immuno deficiency Syndrome - AIDS. **7**  
(b) Tissue transplantation and HLA typing. **7**
5. (a) Immunoelectrophoresis. **7**  
(b) Serological diagnosis of infections diseases. **7**
6. Explain the types, functions and applications of Cytokines. **14**
7. Mechanism and types of hypersensitivity. **14**
8. (a) Haematopoiesis **5**  
(b) Maturation of T-lymphocyte **5**  
(c) Pregnancy detection kit **4**

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