

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

P. Pages : 1

Time : Three Hours



GUG/W/24/11192

Max. Marks : 80

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|-----------|---|-----------|
| 1. | Describe in detail classes and structure of immunoglobulins. | 16 |
| OR | | |
| | i) Differentiate between innate immunity and acquired immunity. | 8 |
| | ii) Describe in detail primary lymphoid organs. | 8 |
| 2. | Describe in detail MHC-I and MHC-II molecules. | 16 |
| OR | | |
| | i) Give the account of humoral immune system. | 8 |
| | ii) Discuss in detail mechanism of cell mediated immunity. | 8 |
| 3. | Describe in details hybridoma technology. | 16 |
| OR | | |
| | i) Give the account of lattice theory. | 8 |
| | ii) Discuss in detail ELISA. | 8 |
| 4. | Describe in detail types of hypersensitivity. | 16 |
| OR | | |
| | i) Discuss in detail principle and significance of vaccination. | 8 |
| | ii) Give the account of autoimmune diseases. | 8 |
| 5. | Write short notes - | |
| | i) Detail antigen | 4 |
| | ii) Cell-cell cooperation. | 4 |
| | iii) Agglutination. | 4 |
| | iv) Immunological tolerance. | 4 |
