

M.Sc. (Biotechnology) (NEP Pattern) Semester-II
NEP-97 / 02MSCBT02 Paper-II : Immunology & Immunological Techniques

P. Pages : 1

Time : Three Hours



GUG/W/24/15334

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw a well labelled diagram wherever necessary.

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| 1. | Describe the five classes of Immunoglobulins. | 16 |
| | OR | |
| | a) Describe the structure and function of Thymus. | 8 |
| | b) Differentiate between Active and Passive immunity with example. | 8 |
| 2. | Describe the structure and function of MHC-I & MHC-II. | 16 |
| | OR | |
| | a) Give the mechanism of cell mediated immunity. | 8 |
| | b) Give the information about Primary immune response. | 8 |
| 3. | Describe the hybridoma technology with reference to monoclonal antibodies. | 16 |
| | OR | |
| | a) Describe the various methods of immunodiffusion in diagnostic microbiology. | 8 |
| | b) Write the mechanism & application of Radio Immune Assay (RIA). | 8 |
| 4. | Describe the various causes of auto immunity. | 16 |
| | OR | |
| | a) Explain the mechanism of Anaphylaxis. | 8 |
| | b) Write a note on : Grave's disease. | 8 |
| 5. | Write an account on : | |
| | a) Lymphocytes. | 4 |
| | b) Complement pathway. | 4 |
| | c) Passive agglutination. | 4 |
| | d) Addison's disease. | 4 |
