

Roll No.

Total No. of Pages : 01

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M.Tech. (Bio Tech) (2018 Batch) (Sem.-2)

APPLIED IMMUNOLOGY

Subject Code : MTBT-201-18

M.Code : 76047

Date of Examination : 04-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWELVE marks.

1. Discuss maturation, activation and differentiation of B and T cells.
2. Deliberate on properties, receptors and therapeutic uses of Cytokines.
3. Write notes on :
 - a) Antigen Processing and Presentation.
 - b) Super Antigens
4. Explain principle and methodology of Western blotting and Flow cytometry.
5. Write notes on :
 - a) Peptide vaccines and Conjugate vaccines.
 - b) Antibody Genes and Antibody Engineering.
6. Discuss about tumour immunology with reference to tumour antigens, immune response, evasion etc.
7.
 - a) Write about Immunological basis of graft rejection.
 - b) Deliberate on different types of Immunodeficiencies.
8. Write notes on :
 - a) Immunoelectron microscopy.
 - b) Cytotoxicity assays.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.