

FACULTY OF SCIENCE

M.Sc. II-Semester Examination, May / June 2017

**Subject: Microbiology
Paper- III
MB Immunology**

Time : 3 Hours

Max. Marks: 80

**PART – A (8x4=32 Marks)
(Short Answer Type)**

1. Nature of antigens
2. Immunoglobulin genes
3. Immunological tolerance
4. Inflammation
5. CFT
6. Flow cytometry
7. Peptide vaccines
8. Chimeric antibodies

**PART – B (4x12=48 Marks)
(Essay Answer Type)**

9.(a) Give a detailed account of the structures of any 3 antibodies and discuss on their functions.

OR

(b) Explain the details of the generation of B-Cell receptor diversity by genomic rearrangement.

10.(a) Write the details of Processing and presentation of antigen by MHC.

OR

(b) Explain the details of the Immune response during viral infection (HIV).

11.(a) Explain the features of Antigen – antibody reaction with reference to ELISA and RIA.

OR

(b) Write the details of Development of Immuno-diagnostic kits.

12.(a) Write about Production of Monoclonal antibodies and their application.

OR

(b) Explain Immunosuppression and its mechanism of action.

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