FACULTY OF SCIENCE
M. Sc. II – Semester Examination, April / May 2014

Subject: Microbiology
Paper – II: Immunology

Time: 3 Hours
Max. Marks: 80

Note: Answer all questions from Part - A and Part - B. Each question carries 4 marks in Part - A and 12 marks in Part - B.

PART – A (8 x 4 = 32 Marks)
(Short Answer Type)

1. Heterophile Antigens
2. Differences between T and B cells
3. Quality control of vaccines
4. Passive immunity
5. MHC
6. Atopy
7. RIA
8. Cytokines

PART – B (4 x 12 = 48 Marks)
(Essay Answer Type)

9. (a) What is Immuno response? Describe Humoral immunity. 
   OR
   (b) Explain the production of monoclonal antibodies and their application.

10. (a) Describe the mechanism of innate immunity and the factors influencing innate immunity.
    OR
    (b) Give an account of different kinds of vaccines emphasizing on their advantages and disadvantages.

11. (a) What is Auto Immunity? Discuss the various mechanisms of autoimmunity. List some auto immune diseases.
    OR
    (b) Explain different classes of MHC antigens and their role in graft rejection.

12. (a) Name various antigen and antibody reactions and describe the principle and application of precipitation reaction.
    OR
    (b) Write the mechanism of tumor cell destruction by the immune system. Add a note on immuno surveillance.

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