

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 Hetrophile 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.
