

May 2025
M.Sc.
Second Semester
CORE – 08
ZOOLOGY
Course Code: MZOC 2.41
(Immunology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Give a comparative account of innate and acquired immunity. 7+7=14
2. Write a note on each of the following: 7×2=14
 - (a) Hapten
 - (b) Adjuvant

UNIT-II

3. Describe the general structure of immunoglobulin. Add a note on functions of different classes of antibody. 7+7=14
4. Write a note on each of the following: 7×2=14
 - (a) Activation and differentiation of T-cell
 - (b) Cytotoxin

UNIT-III

5. Describe in detail the exogenous pathways of antigen processing and presenting cells with a neat diagram. 14
6. Write a note on each of the following: 7×2=14
 - (a) Functions of different antigen-presenting cells
 - (b) Types of cytokines

UNIT-IV

7. Explain the structure and functions of MHC-I. 14

8. Describe the mechanism of immediate hypersensitivity reaction. 14

UNIT-V

9. Describe the general steps in ELISA. Add a note on its various types. 7+7=14

10. Write a note on each of the following: 7×2=14
(a) Immune response to TB infection
(b) Immune response to malaria infection
