

2024
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. With an appropriate diagram, describe the primary and secondary lymphoid organs. 7+7=14
2. Write notes on the following: 7×2=14
 - (a) Cell mediated immune response
 - (b) Factors influencing immunogenicity

UNIT-II

3. Give a detailed account on the antigen-antibody reaction. 14
4. Write notes on the following: 7×2=14
 - (a) Activation and differentiation of B cell
 - (b) Structure and function of T cell receptor

UNIT-III

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

UNIT-IV

7. Write a detailed account on the mechanism of classical pathway of complement activation. 14
8. Write notes on the types and features of hypersensitivity reactions. 4+10=14

UNIT-V

9. Explain in detail the different types of immunodeficiency diseases. 14
10. Write notes on the following: 7×2=14
- (a) Immune response to viral (HIV) infection
 - (b) Radioimmunoassay (RIA)
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