

2023
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. Discuss in detail the components and characteristic features of innate immunity. 7+7=14
2. Write notes on the following: 7×2=14
 - (a) Humoral immune response
 - (b) Antigenicity

UNIT-II

3. Describe the classes and structure of immunoglobulins. Add a note on its functions. 6+6+2=14
4. Write notes on the following: 7×2=14
 - (a) Activation and differentiation of T cells
 - (b) Cytotoxin

UNIT-III

5. Write notes on the following: 7×2=14
 - (a) Exogenous pathways of antigen processing and presentation
 - (b) Types of cytokines
6. Explain in detail the types and functions of interferon. 7+7=14

UNIT-IV

7. Give a detailed account on the structure and functions of MHC class I. 7+7=14
8. Write notes on the following: 7×2=14
- (a) Alternate pathway of complement system
 - (b) Immediate hypersensitivity reaction

UNIT-V

9. Explain in detail the immune response to bacterial infections and malaria. 7+7=14
10. What is ELISA? Describe the procedure and applications of ELISA. 2+6+6=14
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