

2024
B.A./B.Sc.
Sixth Semester
DISCIPLINE SPECIFIC ELECTIVE – 4
ZOOLOGY
Course Code: ZOD 6.21
(Immunology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Elaborate the structure and function of the immune cells. Add a note on selection theory concept in immunology. 10+4=14
2. Explain the different types of factors influencing immunogenicity. Give the difference between B and T-cell epitopes. 10+4=14

UNIT-II

3. Describe in detail the anatomical barriers of immune system. 14
4. Give an account on immune dysfunctions with reference to AIDS. 14

UNIT-III

5. Discuss briefly about the structure and function of different classes of immunoglobulin. 14
6. Write a note on the following: 7×2=14
 - (a) ELISA
 - (b) Antigen-antibody cross reactivity

UNIT-IV

7. Describe the structure and function of MHC I and MHC II with neat diagrams. 7+7=14

8. Explain in detail the properties and function of cytokines. 8+6=14

UNIT-V

9. Elaborate the classical pathway of complement activation with neat diagrammatic representation. 12+2=14
10. Define hypersensitivity. Describe the different types of hypersensitivity according to Gell and Comb's classification. 2+12=14
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