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M.Sc. DEGREE EXAMINATION

ZOOLOGY

Second Semester

IMMUNOLOGY

(Effective from the admitted batch of 2022 -2023)

Time : 3 Hours

Max. Marks : 70

Answer One Question from each unit.

All questions carry equal marks.

UNIT - I

1. (a) What are the different types of T cells? Explain their functions in immune system. 6
- (b) Describe the structure and function of primary lymphoid organs. 6

(OR)

2. (a) What is the difference between immunogenicity and antigenicity? Discuss the factors that determine immunogenicity.
- (b) Write notes on super antigens.

UNIT - II

3. (a) Explain the molecular structure of immunoglobulin molecule. Antibody. 6
- (b) Write an account on immunofluorescence based imaging techniques and their significance.

(OR)

4. (a) Describe the general organization and inheritance of MHC. 3
- (b) Discuss the presentation of non peptide antigens.

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UNIT - III

5. (a) Give an account on cellular dependences of innate immunity.
(b) Explain the ubiquity of innate immunity.

(OR)

6. (a) Describe the structure of B and T cell receptors. Add a note on their role in signalling mechanism. 5
(b) Write an account on components and functions of complement systems. 4

UNIT - IV

7. (a) Discuss the T - cell activation, differentiation and memory generation.
(b) Explain the antibody mediated effector functions.

(OR)

8. (a) Give a detailed account on B - cell development. Cognitive
(b) Write notes on cell mediated immunity. Affective

UNIT - V

9. (a) Explain Type - II and Type - III hypersensitivity reactions. 4
(b) Write notes on primary immunodeficiency disorders. 4

(OR)

10. (a) What is Transplantation immunology? Explain Graft versus host disease.
(b) Discuss the various aspects of cancer immunotherapy.

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