Exam. Code : 107403 Subject Code: 2205

B.Sc. (Biotechnology) 3rd Semester

## BASIC CONCEPTS IN IMMUNOLOGY

Paper: BT-5

Time Allowed—3 Hours [Maximum Marks—40

Note: - Section A: All questions are compulsory. (8 marks)

> Section B: Attempt 5 questions. Each question carries 4 marks and hence total 5 questions. (20 marks)

> Section C: Attempt two questions. Each question carries 6 marks. Total marks for this section are 12.

## SECTION-A

- Give a brief account of the following: 1.
  - (i) Antigen
  - Phagocytosis (ii)
  - Microscopic structure of Eosinophil
  - (iv) GALT
  - (v) Avidity between antigen and antibody

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(Contd.)

- (vi) Types of antigen antibody interaction
- (vii) CD4
- (viii) Which antigens fall under class II antigens?

## SECTION-B

- 2. Describe the features of adaptive immunity.
- How the specificity of antigen antibody reaction was shown 3. by Landsteiner?
- Give the functions of macrophages. 4
- 5. Draw and describe the morphological features of thymus.
- 6. How the antibodies are digested and studied structurally?
- How lysis occurs by alternate pathway of complement?
- Draw the structure of MHC Class II antigens. 8.
- What is the role of class I antigens MHC? 9.

## SECTION—C

- 10. Describe the humoral immune response.
- 11. What are Secondary lymphoid organs? Give in detail the structure and functions of Lymph node.
- 12. Describe the structure of Immunoglobulin M and its function.
- 13. Give a detailed structure of antigen presentation and receipt by TCR.

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