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Exam. Code : 210004

Subject Code: 4236

M.Sc. Botany 4th Semester

IMMUNOLOGY

Paper—BOTC-725

Time Allowed—3 Hours]

[Maximum Marks—50

Note: The question paper consists of three Sections.

Students are required to attempt all the Sections.

Section A consists Eight questions each carrying

1 mark and all questions are compulsory. Section B

consists ten questions each carrying 3 marks and

students are required to attempt any Seven questions.

Section C consists five questions each carrying

7 marks and students are required to attempt any

Three questions.

SECTION—A

- 1. Write short notes on the following:—
 - (a) Allograft
 - (b) Cross-reactivity
 - (c) Mast Cells
 - (d) Opsonin
 - (e) Anaphylactic Shock
 - (f) Colony Stimulating Factor
 - (g) Cytokines
 - (h) Adjuvants.

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(Contd.)

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SECTION—B

- 1. Give an overview of antibody mediated immunity.
- 2. Draw well-labeled diagrammatic sketch of lymph node with brief description.
- 3. What are the Natural Killer Cells? What is their role in immune system?
- 4. How the bifunctionality of antibodies can be proved experimentally?
- 5. What do you understand by monoclonal antibodies? Discuss in brief.
- 6. What are secondary immune responses?
- 7. Discuss the cutaneous associated lymphoid tissue.
- 8. What are Superantigens?
- 9. Describe briefly the lymphatic system.
- 10. Describe the process of phagocytosis.

SECTION—C

- 1. Explain both the pathways of Complement System with well-labelled diagrams.
- 2. Discuss the response of immune system in Acquired Immuno Deficiency Syndrome.
- 3. Explain the process of Antigen recognition by the cells of Adaptive immunity in detail with suitable diagrams.
- 4. What are Mononuclear Phagocytes? How they act to provide protection against infection?
- 5. Describe the historical perspectives of immunology. Discuss briefly the secondary immuno deficiency disorders.