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25-BC-44-A

M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION MAY - JUNE 2025

BIOCHEMISTRY

Paper - IV [Immunology]

*[Max. Marks : 75]**[Time : 3:00 Hrs.]**[Min. Marks : 26]*

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt all five questions. Each question carries an internal choice.
Each question carries **15 marks**.

- Q. 1** Explain the different types of immunity in the human body. Describe each type with suitable example. (15 Marks)

OR

Note on following -

- i) Immunoglobulin super family. (7½ Marks)
- ii) Allotypic and Idiotypic variants. (7½ Marks)

- Q. 2** Describe antigen processing and presentation. (15 Marks)

OR

Short note on following -

- i) Types of T cell with co-receptor. (05 Marks)
- ii) Structure of lymphoid tissue. (10 Marks)

- Q. 3** Write note on followings -

- i) Structure and function of Class II MHC. (7½ Marks)
- ii) HLA Tissue typing. (7½ Marks)

OR

Explain the process of Cell mediated cytotoxicity. (15 Marks)

- Q. 4** Explain complement system in detail. Describe its any one activation pathways. (15 Marks)

P.T.O.

OR

Write short note on -

- i) Biological functions of Complement (C) protein. (05 Marks)
- ii) Any two type of Hypersensitivity. (10 Marks)

Q. 5 Write note on Monoclonal antibodies. (15 Marks)

OR

Write short note on -

- i) Immuno Electrophoresis. (05 Marks)
- ii) Agglutination and Precipitation. (10 Marks)

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