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24-BC-44

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION
JUNE - JULY 2024**

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 five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Explain in detail the humoral and cell mediated immunity.

OR

Write notes on -

- i) Immunoglobuline IgM.
- ii) Acquired immunity.

Q. 2 Discuss NK-cells macrophages and their role.

OR

Describe structure and functions of Lymphoid tissue.

Q. 3 Role of MHC gene in immune response.

OR

Write note on -

- i) Cytotoxicity assay.
- ii) Macrophage activation.

Q. 4 What do you mean by Hypersensitivity ? Discuss various type of hypersensitivity.

OR

What is Immune Tolerance ?

Q. 5 Describe Enzyme linked Immunosorbent Essay (ELISA) and its applications.

OR

Describe antigen antibody reaction with example.