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25-MB-44-A

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

MICROBIOLOGY

Paper - IV
[Cell Biology]

[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 Plant Cell Wall in detail.

OR

Explain structure and function of Plasma Membrane.

Q. 2 Write a detailed note on Active and Passive transport system of cell membrane.

OR

How does a plasma membrane regulate transport of Metabolites ? Explain with suitable example.

Q. 3 Write detailed note on **any two** of the following -

- i) Mitochondrial DNA.
- ii) Photosynthetic Electron Transport Chain.
- iii) Chloroplast DNA.

Q. 4 Write a detailed note on structure and function of Ribosomes and Endoplasmic Reticulum.

OR

Describe the structure and function of Golgi Body and Lysosomes.

Q. 5 Explain regulation of cell cycle.

OR

Explain the process of Meiosis and Mitosis.