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25-MF-23

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

FISHERIES
Paper - III
[Aquatic 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 Describe abiotic and biotic characters of fresh water environment in detail.

OR

Write note on following -

- i) Adaptation in fishes.
- ii) Oceanography.

Q. 2 What is Primary Productivity ? Explain qualitative and quantitative analysis of Planktons.

OR

Describe benthos and Macro vegetation in detail.

Q. 3 Explain food web structure and transfer of energy from one trophic level to other.

OR

What is Pelagic Communities ? Explain their biomass and trophic dynamics.

Q. 4 Describe culture and identification techniques of microbes in detail.

OR

What is Microbial Physiology ? Explain factors affecting growth of microbes.

Q. 5 Describe biological and chemical oxygen demand (BOD and COD) and their effect on aquatic life.

OR

Describe "Pollutants" which effect aquatic life.