

2025

M.Sc. 3rd Semester Examination

FISHERIES SCIENCE

Paper : FSC - 305

(Aquaculture Engineering and Management)

Full Marks : 25

Time : One Hour

The figures in the margin indicate full marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

1. Answer any *two* questions :

2×2=4

- (a) Write benefits and problems of Recirculatory Aquaculture System.
- (b) State the principal scientific approach of aquaponics.
- (c) What do you mean by aquamimicry? Give two examples.
- (d) What are biofilters and why they are important in aquaculture?

2. Answer any *two* questions :

4×2=8

- (a) Discuss the use of different types of chemical fertilizers in aquafarm and their impact on the environment.

P.T.O.

(2)

- (b) Discuss the technology associated with the Biofloc culture.
- (c) Give an account on different aeration technology used in shrimp farming pond.
- (d) Discuss the advancement of cage culture system in India.

3. Answer any *one* question : 8×1=8

- (a) Discuss different scientific approaches in integrated fish farming system. Write the benefits and drawbacks in these system. 5+3
- (b) Discuss different scientific engineering approach during fish farm construction. Add a note on the different soil and water quality standard requirement in fish shrimp farming pond in West Bengal. 4+4

Internal Assessment : 5 marks
