

2025

M.Sc. 3rd Semester Examination

FISHERIES SCIENCE

Paper : FSC - 304

[Elective Course]

[Old Syllabus]

Full Marks : 50

Time : Two Hours

The figures in the margin indicate full marks.

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

Unit - 1

(Aquaculture Technology)

1. Answer any *two* questions :

2×2=4

- (a) Write a short note on natural collection of fish seed.
- (b) Mention the favorable condition for carp breeding.
- (c) What are value-added fish products? Give one example.
- (d) Mention the nutritional composition and importance of fish.

P.T.O.

2. Answer any *two* questions :

4×2=8

- (a) Briefly describe the structure of teleost pituitary gland and name the hormones secreted by it.
- (b) Mention one objective of 'Turtle Excluder Device'. Name two traditional fishing gear and crafts used in Inland fisheries of West Bengal.
- (c) What do you mean by Induced breeding? State the main objective of Induced breeding programs of fish.
- (d) Write a note on advanced communication system used in fishing vessels.

3. Answer any *one* question :

8×1=8

- (a) Briefly discuss hybridization in fish with suitable example.
- (b) Answer the following questions :
 - (i) Differentiate between active and passive fishing gears with examples. 4
 - (ii) Explain the maintenance and storage methods for fishing gears. 4

Unit - 2

(Fisheries Entrepreneurship Development)

1. Answer any *two* questions :

2×2=4

- (a) Define 'Fisheries Extension'.

(3)

- (b) What is the objective of the PMMSY?
- (c) Define 'Benefit-Cost ratio'.
- (d) Name two fisheries research and training institutes in India.

2. Answer any *two* questions : 4×2=8

- (a) Write short notes on important fishery-related laws in India.
- (b) What is the importance of entrepreneurship development in fisheries in present context.
- (c) Discuss various methods used in fisheries extension education.
- (d) Explain the socio-economic importance of rural aquaculture.

3. Answer any *one* question : 8×1=8

- (a) Name two fisheries co-operative societies in West Bengal. Describe the structure and functioning of fisheries co-operative societies in India. 2+6
- (b) Write a note on Marine Fishing Regulation Act (MFRA)? Name two agencies involved in fisheries credit or finance. 6+2

Internal Assessment : 10 marks
