

**2017**

**M.Sc.**

**3rd Semester Examination**

**FISHERIES SCIENCE**

**PAPER—FSC-304**

*Full Marks : 40*

*Time : 2 Hours*

*The figures in the right-hand margin indicate full marks.*

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

*Illustrate the answers wherever necessary.*

**Unit-I**

**(Aquaculture Technology)**

1. Answer any two of the following questions: 2×2

- (a) Differentiate between value-added products and fish byproducts.

*(Turn Over)*

- (b) Briefly justify the Fish is an important source for human nutrition.
- (c) Write different steps of hypophysation technique for fish spawning.
- (d) Enlist different value-added product prepared from fishes.

2. Answer any *two* of the following questions : 2×4

- (a) Enlist different byproducts prepared from fishes and shell-fishes. Add a note on isinglars. 2½+1½
- (b) Give an account on the characteristics of float.
- (c) Compare among active and passive fishing gears.
- (d) Briefly discuss on hybridization of fish with suitable examples.

3. Answer any *one* of the following questions : 1×8

- (a) Define fishing gear with example. Enlist name of traditional fishing gear used in West Bengal. Add a note on gear preservation. 2+2½+3½
- (b) Write short notes (any *two*) : 2×4
  - (i) Ovarian cycle of a tropical teleost.
  - (ii) Features of omideal fishing craft.

(iii) Procedure of fish finger preparation.

(iv) Inducing hormones used in fish breeding.

## Unit-II

### (Fisheries Entrepreneurship Development)

4. Answer any *two* of the following questions : 2×2
- (a) Mention the objectives of Fisheries Extension.
- (b) What are the National Schemes for welfare of fishermen ?
- (c) State the reasons that may lead to failures of fishermen's cooperatives.
- (d) Write a note on Trickle Down System (TDS) of aquaculture extension.
5. Answer any *two* of the following questions : 2×4
- (a) Discuss the employment potentiality in the fisheries sector of India. 4
- (b) State about the different extension teaching-learning method. 4

(c) Briefly explain the objectives for development and management of fisheries in XII five-year plan. 4

(d) Briefly write different Acts, Rules and Regulations related to fisheries. 4

6. Answer any one question of the following :

1×8

(a) (i) Discuss in details the different principles of fisheries extension.

(ii) What are the role of fisheries cooperatives for fisheries development. 4+4

(b) (i) Discuss centrally sponsored scheme for fisheries.

(ii) Write a note on fisheries education in India.

4+4

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