

**2018**

**M.Sc.**

**2nd Semester Examination**

**FISHERIES SCIENCE**

**PAPER—FSC-204**

**Subject Code—28**

*Full Marks : 40*

*Time : 2 Hours*

*The figures in the 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**

*(Fundamentals of Fisheries Science)*

1. Write brief note on any *two* of the following : 2×2
- (a) What is living fossil ? Give example from fish.
- (b) Write the names of four exotic fish species. in India.

*(Turn Over)*

- (c) Mention the current fish production in India and West Bengal.
- (d) Write the name of two fish species cultured in 'Pokkali' field of Kerala.

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

- (a) Write down the different characters studied in fish for morphometric analysis.
- (b) Briefly explain the scope of aquaculture in India.
- (c) Write a note on the measures to be taken to enhance Indian fish production.
- (d) State the objectives of aquaculture in India.

3. Answer any *one* question from the following : 1×8

- (a) (i) State the important characteristics of fish.
- (ii) Enlist two fin fishes and two shell fishes of Indian water having commercial importance.
- (iii) Discuss different types of scales of fish.
- (iv) Add a note on scale less fish. 2+2+2+2
- (b) (i) Give an idea about fin formula of fish.
- (ii) Write a note on the inland fisheries resources of India.

- (iii) Describe the advantages of paddy cum fish culture. 2+3+3

### Unit—II

#### (Aquaculture Management)

4. Answer *two* questions from the following : 2×2
- (a) What is intensive and semi-intensive aquaculture ?
  - (b) State about oviparous and ovoviviparous ornamental fishes with examples.
  - (c) Why sewage water is used as a tool for aquaculture ?
  - (d) What do you mean by monoculture in fish ? Explain with example.
5. Answer *two* questions from the following : 2×4
- (a) What are the criteria for selection of a suitable species in commercial aquaculture ? 4
  - (b) Briefly explain the process of home aquarium management. 4
  - (c) Enlist different components used in home aquarium. 4
  - (d) Write a note on preparation of nursery pond. 4

6. Answer any *one* question from the following : 1×8

(a) (i) What is cage culture ?

(ii) Distinguish between cage culture and Pen-culture.

(iii) Briefly narrate the advantages and dis-advantages of race-way culture. 2+2+(2+2)

(b) (i) Define composite fish culture.

(ii) Describe different types of integrated fish farming.

(iii) Add a note on ornamental plants. 2+4+2

---