

2022

M.Sc.

2nd Semester Examination

FISHERIES SCIENCE

PAPER—FSC-204

Full Marks : 50

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-204.1

FUNDAMENTALS OF FISHERIES SCIENCE

1. Answer any *two* questions.

2×2

(a) What is the ecological impact of Pokkali fish culture?

(Turn Over)

- (b) State the present status of fish consumption in India.
- (c) Write the current fish production of India and West Bengal.
- (d) Name two important finfishes and shell fishes available in West Bengal.

2. Answer any *two* questions. 2×4

- (a) What are advantages and disadvantages of paddy cum fish culture?
- (b) Describe objectives and importance of aquaculture.
- (c) Discuss different morphometric characteristics of fish.
- (d) How to write fin formula of a fish?

3. Answer any *one* question. 1×8

- (a) (i) Briefly explain the scope and challenges of inland aquaculture in India. 4
- (ii) Discuss the management practices for the

enhancement of Fisheries in small reservoir. 4

(b) (i) Discuss the reason for declining trend of fisheries in Indian reservoir. 4

(ii) Write a note on inland fisheries resources of India. 4

UNIT-204.2

AQUACULTURE MANAGEMENT

1. Answer any *two* questions. 2×2

(a) What is sewage fed fish culture?

(b) Write the check list for pond preparation before fish stocking.

(c) Give the scientific name and common name of two indigenous and two exotic ornamental fishes.

(d) Define composite fish culture.

2. Answer any *two* questions. 2×4

(a) Briefly describe advantages of cage culture.

- (b) Discuss constraints of pen farming in West Bengal.
- (c) Describe different types of integrated fish farming.
- (d) Write a note on pre-stocking management of nursery pond.

3. Answer any one question.

1×8

(a) (i) What is race culture?

(ii) State the advantages of raceway culture.

(iii) Why does sewage used as a tool for fish culture? 2+4+2

(b) (i) Enlist different components used in home aquarium.

(ii) Name two egg laying and two live bearer ornamental fishes.

(iii) Discuss on the livelihood opportunities from ornamental fish trade. 2+2+4

[Internal Assessment - 10 Marks]