

M.Sc. 2nd Semester Examination, 2023

FISHERIES SCIENCE

PAPER –FSC-204 (CBCS)

Full Marks : 40

Time : 2 hours

The figures in the right hand margin indicate marks

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

UNIT –1

(Fundamental of Fisheries Science)

[Marks : 20]

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

(a) Define fish. Mention important characteristics of fish.

(b) State the principle of sewage fed fish culture.

(c) Write short note on Exclusive Economic Zone of India.

(d) Discuss habitat diversity of fishes.

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

(a) Discuss scope and challenges of inland aquaculture in India.

(b) Describe objectives of aquaculture.

(c) Give an account of Inland fisheries resources of India.

(d) Give Scientific name and common name of two commercially important finfish and two shellfishes.

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

(a) (i) Briefly describe advantages of paddy cum fish culture.

(ii) What are the significance of fin formula ?
Explain this fin formula : D IV-VI/7-8 ;
P12 ; V I/5; A IV-V/23-28; C 14-16.

4 + 4

(b) (i) Describe suitable practices to enhance
reservoir fisheries.

(ii) What is living fossil ? Give example
from fish. Mention the characters of
Cycloid and Ctenoid scale.

4 + 4

UNIT-2

(*Aquaculture Management*)

[Marks : 20]

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

(a) Why sewage is important for fish culture ?

(b) What is smart aquaculture ?

(c) What is intensive and semi-intensive
aquaculture ?

(d) Mention important characteristics of ornamental fishes.

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

(a) Briefly describe Biofloc fish culture techniques.

(b) Discuss aquaponics with their merits and demerits.

(c) Write a note on pre-stocking management of nursery pond.

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

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

(a) (i) State the advantages and disadvantages of cage culture.

(ii) Enlist different components used in home aquarium.

4 + 4

- (b) (i) Briefly describe different types of integrated fish farming.
- (ii) Discuss the management process of home aquarium.