



PG (CBCS)  
M.SC Semester- II Examination, 2023  
FISHERIES SCIENCE  
PAPER: C-FSC 204  
(FUNDAMENTALS OF FISHERIES SCIENCE AND AQUACULTURE  
MANAGEMENT)

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.

**Write the answer for each unit in separate sheet**

**UNIT: C-FSC 204.1**

**FUNDAMENTALS OF FISHERIES SCIENCE**

**GROUP-A**

1. Answer any **TWO** from the following questions: 2×2=4
- Define Intensive aquaculture with examples.
  - Give common name and scientific name of two Indian carps as principal aquaculture species.
  - What do you mean by Mariculture?
  - Why fish is important in human nutrition?

**GROUP-B**

2. Answer any **TWO** from the following questions: 2×4=8
- Briefly describe the scope of aquaculture in India.
  - Define aquaculture. How do you compare agriculture with aquaculture?
  - Discuss the feeding biology of Indian Major Carps.
  - Write down the difference between extensive and semi-intensive culture.

**GROUP-C**

3. Answer any **ONE** from the following questions: 1×8=8
- Briefly describe the reproductive biology of *Macrobrachium rosenbergii*. Add a note on morphometric characteristics of fishes.
  - Enlist different fisheries resources in India. Discuss on the conservation methods of aquatic resources.

(P.T.O)

(2)



**C-FSC 204.2**  
**AQUACULTURE MANAGEMENT**

**GROUP-A**

1. Answer any **TWO** from the following questions: 2×2=4
- a) What do you mean by biofloc culture system?
  - b) Name one indigenous and one exotic ornamental fish.
  - c) What is aquaponics?
  - d) Distinguish between monoculture and polyculture.

**GROUP-B**

2. Answer any **TWO** from the following questions: 2×4=8
- a) Classify ornamental fishes according to spawning habit. Give a list of aquarium accessories. 2+2
  - b) Briefly explain Recirculating Aquaculture System. 4
  - c) Mention the advantages and disadvantages of pen culture. 2+2
  - d) Give a brief account of Integrated Multi Trophic Aquaculture (IMTA). 4

**GROUP-C**

3. Answer any **ONE** from the following questions: 1×8=8
- a) Differentiate between stocking pond and rearing pond. Briefly discuss the management of nursery pond and stocking pond. 3+5
  - b) Comment on: 4+4
    - i) Sewage fed fish culture.
    - ii) Cage culture of fish

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