2023

BFSC 5th Semester Examination

(Coastal Aquaculture and Mariculture)

PAPER — BFSC-504

Indrajit

Full Marks : 50

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.

Illustrate the answers wherever necessary.

1. Answer *any* **ten** from the following questions : 2×10=20

(a) Write the names of two fish species culture in the Pokkali field of Kerala.

(b) Mention the hydrobiological characteristics of perennial brackish water bheri.

(c) State the necessities of sea ranching.

(d) Mention the feeding habits of *Chanos Chanos*.

(e) Write the names of two commercially important edible oysters.

(f) What is the optimum range of soil quality parameters suitable for brackish water aquaculture?

(g) Write the scientific names of green mussel and brown mussel.

(h) Write a note on the procedure of crab fattening.

(i) Define coastal aquaculture with examples.

(j) Write the scientific names of two red seaweeds and two brown seaweeds.

(k) What do you mean by pond productivity?

(l) Write the names of the States of India where the traditional farming 'Khazan' and 'Gazani' are practiced.

(m) Why is liming required in fish pond?

(n) Write the scientific names of the 'giant mud crab' and 'three spot swimming crabs'.

(o) Write the names of the 'State fish' of Kerala and West Bengal.

2. Answer *any* **six** from the following questions : 5×6=30

(a) Point out the differences between Extensive and Intensive aquaculture practices.

(b) Write down the reproductive biology of grey mullet.

(c) Briefly describe the life cycle of pearl oyster with schematic diagram.

(d) Briefly describe the future prospect of sea-weeds culture in India.

(e) Describe the reproductive cycle of mud crabs in India.

(f) Define mariculture. Write a brief note on future prospect of mariculture in India. 1+4=5

(g) Define sexual dimorphism. Give an account of sexual dimorphism in fishes.

(h) Briefly discuss the estimation of fish yield potential of a water body.

(i) Give an account of hightech aquaculture with suitable example.

(j) Mention the future prospects of *Rachycentron canadum* in India.

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