

2023

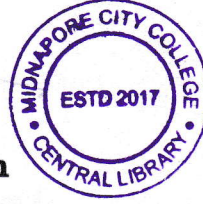
BFSC 5th Semester Examination

(Coastal Aquaculture and Mariculture)

PAPER — BFSC-504

Full Marks : 50

Time : 2 hours



Indrajit

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.

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(Turn Over)

(2)

- (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?

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(Continued)



(3)

- (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
- (p) Point out the differences between Extensive and Intensive aquaculture practices.
- (q) Write down the reproductive biology of grey mullet.
- (r) Briefly describe the life cycle of pearl oyster with schematic diagram.
- (s) Briefly describe the future prospect of seaweeds culture in India.
- (t) Describe the reproductive cycle of mud crabs in India.
- (u) Define mariculture. Write a brief note on future prospect of mariculture in India.
1+4=5
- (v) Define sexual dimorphism. Give an account of sexual dimorphism in fishes.

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(Turn Over)

(4)

- (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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