

2023

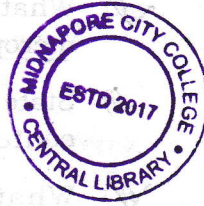
BFSC 3rd Semester Examination

Marine Biology

PAPER — BFSC-302

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) Define fouling organism with example.
- (b) Mention the important features of pelagic zone.
- (c) What is luciferin?
- (d) Enlist the name of two fishes show bioluminescence.
- (e) Define *Rhodophyta*.

(2)

- ✓ What do you mean by detritivore?
- ✓ What do you mean by Mud bank? Cite example.
- (h) Indicate the geographical area of Hooghly-Matlah estuary.
- ✓ What do you mean by mesoplankton and meroplankton?
- (i) State the distribution of seaweeds in Indian context.
- ✓ What is the significance of estuarine ecosystem?
- (j) Enlist the Maritime States and Union Territory of India.
- (m) What is the importance of neritic water in marine fishery?
- ✓ Distinguish between euphotic and aphotic zones.
- (o) What do you mean by epifauna and infauna?
2. Answer any six from the following questions :
5×6=30
- (a) Briefly describe the fisheries potentialities of Mahanadi estuary.
- ✓ Draw and label the ocean zonation.

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(Continued)



(3)

- ✓ Classify different types of Plankton based on their sizes.
- ✓ Briefly describe the uses of seaweeds.
- (e) What are the conditions necessary for the development of tidal bores?
- (f) What are the problems associated with offshore fisheries?
- ✓ Discuss physico-chemical characteristics of estuaries.
- ✓ Classify different types of Benthos, according to their sizes.
- (i) Give a flow chart of CO₂ cycle in marine ecosystem.
- (j) Briefly discuss the adaptation of Nekton in marine environment.

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