

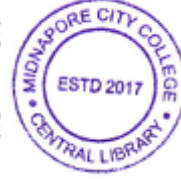
2025

3rd Semester Examination

4-Years B.F.Sc.

Paper : BFSC-302

(Marine Biology)



Full Marks : 50

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

1. Answer any *ten* questions : $2 \times 10 = 20$

(a) Define pelagic animal. Cite one example.

(b) Define holoplankton and meroplankton.

(c) Mention the ecological role of seaweeds.

(d) What is bio-engineer species? Cite an example.

(e) Enlist the name of two fish species that exhibit bioluminescence.

(f) Name two burrowing organisms of Sea.

(g) What are the main characteristics of a mud flats ecosystem?

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- (h) Define hadal zone.
- (i) Mention the causes of red tide in the ocean.
- (j) Write the name of two crabs found in the East Midnapore coastal belt.
- (k) Why the aphotic zone called the 'midnight zone'?
- (l) Name two flat sea fishes.
- (m) What is the Boom-and-Bust Cycle in marine ecosystems?
- (n) What do you mean by fish schooling and shoaling?
- (o) Mention two causes of ocean degradation.

Group - B

2. Answer any six questions : 5×6=30

- (a) Mention the zonation of the ocean based on depth.
- (b) Describe how salinity and waves of ocean affect marine life.
- (c) Describe sea shore with their faunal components.
- (d) Briefly describe different biotic communities of the pelagic region.
- (e) Mention the present strange oceanic events that reveal environmental shifts and warnings of disaster.

$2\frac{1}{2} + 2\frac{1}{2}$



(3)

- (f) Why Hooghly-Matla estuary is a high productive estuary?
- (g) Describe the geomorphic classification of estuaries.
- (h) Write the adaptative feature of Whales in marine environment.
- (i) Explain the impact of global warming on ocean ecosystems and marine life.
- (j) Write on Phytoplankton-Zooplankton relationship on marine system.