

2023

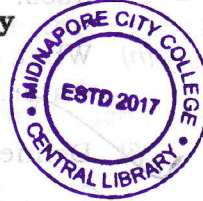
**BFSC 3rd Semester Examination**

**Fishery Oceanography**

PAPER — BFSC-303

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** questions from the following :  
2×10=20

(a) What is abyssal zone?

(b) Mention the application of bathythermograph in fisheries.

(c) Write a short note on breaking waves of ocean.

(2)

- (d) State the causes of El Nino.
- (e) Mention the causes of salinity of sea water.
- (f) Write some dissolved gases present in sea water.
- (g) Define reversing thermometer. State its uses.
- (h) What are diffusivity and viscosity of sea water.
- (i) Define Ocean Currents.
- (j) Write a short note on downwelling in ocean.
- (k) What do you mean by Beaufort scale?
- (l) State the distribution pattern of phosphorus compound present in the sea water.
- (m) State the importance of ocean wave.
- (n) Name two institutes in India that particularly involve in ocean research.
- (o) Write down the causes of Tsunamis.
2. Answer any six questions from the following :  
5×6=30
- (a) Define ocean tide. Differentiate between spring tide and neap tide. (1+4=5)

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(Continued)

(3)

- (b) Explain the properties of sea ice. State the distribution pattern of manganese. 2+3=5
- (c) Give a flow chart of the carbonate cycles in the ocean ecosystem. (5)
- (d) Discuss the chemical properties of sea water. (5)
- (e) What is long wave? Describe how the surface wave generates. (2+3=5)
- (f) State the applications of remote sensing in fishery oceanography. (5)
- (g) What are thermal properties of sea water? Briefly describe the direct-indirect measurement of ocean current. 2+3=5
- (h) Write down the difference between internal waves and surface waves. 5
- (i) How to measure salinity of sea water? 5
- (j) How do temperature and salinity change in terms of ocean depth? 5
- (k) Give an account on the World Oceans. 5

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