

2025

3rd Semester Examination

4-Years B.F.Sc.

Paper : BFSC-303

(Fishery Oceanography)



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 Oceanography.

(b) Write the name of world oceans.

(c) Why is tidal energy considered a renewable source of energy?

(d) What is tidal bore?

(e) How does rainwater contribute to the salinity of seawater?

(f) What is the source of salt in seawater?

(g) Write the physical properties of sea.

P.T.O.



(2)

- (h) What is tsunami? Give one example from the perspective of the Indian subcontinent.
- (i) Write the chemical composition of seawater.
- (j) Distinguish between spring tide and neap tide.
- (k) What is thermohaline circulation?
- (l) What are the full forms and headquarters of INCOIS and NIO?
- (m) Define strait and gulf.
- (n) State the Ekman spiral theory for surface ocean currents.
- (o) What are oceanic Trenches?

Group - B

2. Answer any six questions : $5 \times 6 = 30$

- (a) Describe the vertical profile of temperature in the ocean with diagram.
- (b) Discuss the properties of sea ice. Explain how inorganic compounds affect the composition of seawater.
- (c) What is 'Matsya 6000'? Mention its main purpose in India's deep-sea exploration program (Samudrayaan Mission).



(3)

~~(d)~~ Discuss the different types of mechanical waves.

(e) Write notes on :

(i) Seiche

(ii) La Nino

~~(f)~~ Give a flowchart of the nitrogen cycle in the ocean ecosystem.

~~(g)~~ Define Sea Surface Temperature (SST). Write down the significance of SST in oceanographic studies.

~~(h)~~ What is the Exclusive Economic Zone (EEZ)? What are the rights of a country in the Exclusive Economic Zone?

~~(i)~~ Discuss the major factors that create ocean currents.

(j) Explain the processes involved in the formation of ocean basins, including plate tectonics and seafloor spreading.
