

M.Sc. 2nd Semester Examination, 2025

FISHERIES SCIENCE

(Aquatic Ecology and Ecosystem Management)

PAPER – FSC-201

Full Marks : 25

Time : 1 hour

Answer all questions

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

GROUP – A

1. Answer any *two* questions from the following :

2 × 2

(a) Define gross and net productivity.

(b) Differentiate a Lotic ecosystem from a Lentic ecosystem.

(Turn Over)

(2)

- (c) Write the characteristics of a wetland.
- (d) Write the standard physico-chemical characteristics of an aquaculture pond.

GROUP – B

2. Answer any *two* questions from the following :

4 × 2

- (a) State the food web in an aquatic ecosystem.
- (b) Discuss the thermal stratification in the lake ecosystem.
- (c) Write notes on ecological pyramids in an aquatic ecosystem.
- (d) Discuss the role of plankton for water colour development.

GROUP – C

3. Answer any one question from the following :

8 × 1

(a) Write down the characteristics of an estuary. State the fisheries potentialities in the Hooghly-Matlah estuary. Discuss detritus food chain in the mangrove ecosystem with special reference to Sundarban West Bengal.

2 + 4 + 2

(b) Enlist different zonation in a marine ecosystem. Write the pollution aspects of the marine environment. State on conservation and management measures of the marine ecosystem.

3 + 2 + 3

[Internal Assessment – 5 Marks]

