2022

M.Sc.

2nd Semester Examination FISHERIES SCIENCE

PAPER-FSC-201

Full Marks: 50

Time: 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Answer all questions.

UNIT-201.1 FRESHWATER ECOLOGY

1. Answer any two questions.

 2×2

(a) What is Potamon zone?

(Turn Over)

- (b) Define neuston with examples.
- (c) Compare a lotic and lentic ecosystem.
- (d) Why wetland ecosystem is regarded as 'Biological Supermarkets/Earth's filter'?
- 2. Answer any two questions.

2×4

- (a) Briefly narrate the threats of Mangrove ecosystem.
- (b) Briefly describe the Nitrogen cycle with flow diagram.
- (c) Briefly narrate the restoration of aquatic ecosystem.
- (d) Discuss the grazing food chain with diagram.
- 3. Answer any one question.

1x8

- (a) Write notes on:
 - (i) Thermal stratification of freshwater environment.
- (ii) Adaptive modifications of Rhithron communities. 4+4

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(Continued)

(b) Define wetland ecosystem. Enlist the faunal peculiarities of any wetland ecosystem. Briefly narrate the management process of wetland ecosystem. 2+3+3

UNIT-201.2

SALINE WATER ECOLOGY

1. Answer any two questions.

 2×2

- (a) What is photic zone? State its significance.
- (b) Write name of two plankton responsible for light or bright green water colour.
- (c) Define holoplankton and meroplankton with examples.
- (d) Why estuanne ecosystem is more productive than other aquatic ecosystems?
- 2. Answer any two questions.

2×4

(a) Describe the strategies of marine communities conservation.

- 4
- (b) Briefly explain the life cycle of any zooplankton with diagram.
- (c) Briefly narrate the need and scope of Integrated Coastal Zone Management (ICZM) program.
- (d) Enlist the biotic communities of pelagic zones.
- 3. Answer any one question.

1×8

- (a) What is coral reef ecosystem? Enlist major inhabitant in this ecosystem. Mention the threats of coral reef ecosystem.
 2+3+3
- (b) What is neap tide and spring tide? Briefly describe the physico-chemical characteristics of marine environment. Add a note on adaptive modifications of coastal inhabitants. 2+4+2

| Internal Assessment - 10 Marks |