M.Sc. 1st Semester Examination, 2023

FISHERIES SCIENCE

PAPER — FSC-101

Full Marks : 50

Time : 2 hours

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

UNIT— FSC-101.1

(*Fisheries Resources and Management*)

1. Answer any *two* of the following : 2×2

   (*a*) Mention the current status of foreign exchange by exporting fish and fishery products.

(b) What do you mean by river ranching ? Give suitable example.

(c) Write short note on marine fisheries resources of India.

(d) Name scientific name of two indigenous and two exotic cold water fish species.

2. Answer any *two* of the following : 4 × 2

(a) Estuaries are considered as most productive ecosystem, Justify. Name two important estuaries of India.

(b) Give an account of brackish water fishery resources of India and their importances.

(c) Wrie a note on pelagic fisheries resources of India.

(d) Briefly discuss the reasons for decline trend of Inland capture fisheries.

3. Answer any *one* of the following :   8 × 1

   (*a*) Classify reservoirs. Briefly describe the suitable management practices for the enhancement of different reservoir fisheries in India.

   (*b*) Write short note on the following :
                                            2 + 2 + 4

     (*i*) Winter bagnet fisheries

     (*ii*) Morphological modification exhibited by coldwater fishes

     (*iii*) Sports fisheries in India.

UNIT— FSC-101.2

(*Fisheries Legislation and Bioinformatics*)

4. Answer any *two* of the following :   2 × 2

   (*a*) Mention the name of different central fisheries legislation of India.

(*Turn Over*)

(b) Highlight the Coastal Aquaculture Authority Act, 2005.

(c) What do you mean by genome and proteome.

(d) Write short note on ICT in Aquaculture.

5. Answer any *two* of the following : 4 × 2

(a) Write a note on the MPEDA Act, 1972.

(b) Briefly discuss on Code of Conduct for Responsible Fisheries.

(c) Discuss the role of cyber extension and e-learning.

(d) Write a note on AI and its significance in aquafarming.

6. Answer any *one* of the following :   8 × 1

(*a*) Discuss about important bioinformatics tools used in fisheries and aquaculture. Give an account of the various database and their importance.   4 + 4

(*b*) Write a note on Merchant Shipping Act, 1958. Add a note on current fisheries administrative set up in West Bengal. 5 + 3

[Internal Assessment — 10 Marks]

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