PG CBCS
M.SC. Semester- I Examination, 2024
FISHERIES SCIENCE
PAPER: FSC 101
(FISHERIES RESOURCE AND MANAGEMENT AND FISHERIES
LEGISLATION AND BIOINFORMATICS)

Full Marks: 40   **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.

Write the answer for each unit in separate sheet

FSC 101.1: FISHERIES RESOURCE AND MANAGEMENT

GROUP-A

Answer any <u>TWO</u> of the following questions: 2×2=4

1. Write name and originating point of two important West Coast river systems of India.   1+1
2. Name two important fishing crafts used in reservoirs of India.
3. What do you mean by sport fishery?
4. Briefly mention two management practices employed for estuarine fisheries in India.

GROUP-B

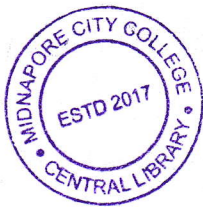**Answer any <u>TWO</u> of the following questions:**   2×4=8

1. Why the estuaries are called the nursery ground of *Macrobrachium rosenbergii*?
2. Write a short note on – "Present Status of Hooghly Matlah Estuary" in terms of fisheries potentialities.
3. What are the problems behind the development of brackish water fishery resources of India?
4. Describe briefly the threats of cold-water fish diversity in India.

GROUP-C

Answer any <u>ONE</u> of the following questions: 1×8=8

1. Write a note on pen and cage culture systems adopted in Indian reservoirs. 4+4
2. Give an account of problems and prospects marine fishery resources in India. 4+4

(P.T.O.)

FSC 101.2 FISHERIES LEGISLATION AND BIOINFORMATICS

GROUP-A

Answer any TWO of the following questions: 2×2=4

1. Name two important software and their application in aquaculture. 1+1
2. Mention two areas of aquaculture where Artificial Intelligence (AI) is used successfully. 1+1
3. What are the major roles of the Coastal Aquaculture Authority (CAA)?
4. Define the Basic Local Alignment Search Tool (BLAST) of Bioinformatics.

GROUP-B

Answer any TWO of the following questions: 2×4=8

1. Make a sketch of administrative setup of Fisheries Department, Govt. of West Bengal.
2. Discuss the Merchant Shipping Act, 1958.
3. Write a short note on EEZ of India.
4. Discuss the code and conduct of responsible fishing.

GROUP-C

Answer any ONE of the following questions: 1×8=8

1. Why Artemis Genome Browser is considered a valuable tool in aquaculture research? What specific features of Artemis make it useful for annotating bacterial genome sequences? 4+4
2. What is the primary objective of the Marine Products Export Development Authority (MPEDA)? What are some challenges faced by MPEDA in its mission to promote marine product exports?

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