PG (CBCS)
M.SC. Semester- IV Examination, 2023
ZOOLOGY
PAPER: ZOO 403A
(AQUACULTURE & FISH TECHNOLOGY AND INLAND AND MARINE FISHERIES)

Full Marks: 40   **Time: 2 Hours**

Write the answer for each unit in separate sheet

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.

ZOO 403A.1
AQUACULTURE & FISH TECHNOLOGY
F.M. - 20

GROUP-A

1. Answer any **TWO** of the following questions: 2×2=4
   a) What are the main advantages of integrated fish farming?
   b) Write down the causative agents of Argulosis and Trichodiniasis infection in fish.
   c) What is the contribution of aquaculture in National GDP?
   d) What do you mean by Semi closed recirculating system?
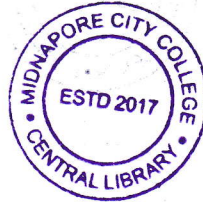
GROUP-B

2. Answer any **TWO** from the following questions: 2×4=8
   a) Write a note on the advantages of paddy cum fish farming practices and future prospect.
   b) Write the difference between extensive, semi-intensive and intensive aquaculture practices.
   c) Briefly describe benefits of aquaculture from human perspective.
   d) What are the problems of fish drying technique?

GROUP-C

3. Answer any **ONE** of the following questions: 1×8=8
   a) What is extension education? How extension education helps to improve fishermen community?   2+6
   b) What is inbreeding depression? Describe briefly the hybridization techniques with example from fish. Add a note on constraints of gynogenesis.   2+4+2

(P.T.O)

ZOO 403A.2
INLAND AND MARINE FISHERIES
F.M. - 20

GROUP-A

4. Answer any **TWO** from the following questions:　　　　　2×2=4
   a) What is SIFS?
   b) Classify Inland Fisheries of India.
   c) Why is fish referred to as "Rich Food for Poor People"?
   d) Enlist the marine products exported from India.

GROUP-B

5. Answer any **TWO** from the following questions:　　　　　2×4=8
   a) Classify lakes on the basis of circulation. What is Oxbow lake?　3+1
   b) What is River Ranching Programme? Mention the importance of estuary as an ecosystem.　　　　　2+2
   c) Distinguish between industrial and municipal waste water. Mention two secondary treatment measures for waste water management.　　2+2
   d) What is GIS system? What are the applications of Remote Sensing in fisheries.　　　　　1+3

GROUP-C

6. Answer any **ONE** from the following questions:　　　　　1×8=8
   a) What is Public Health Fishery? Give an elaborate account of Waste Stabilization Pond.　　　　　2+6
   b) Comment on:　　　　　4+4
   　　i) Shellfish Fishery.
   　　ii) Lakes formed by volcanic activity.

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