2022

ZOOLOGY

[P.G.]

(M.Sc. Fourth Semester End Examination-2022)
PAPER-403 (Fishery Special)

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

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

far as practicable

Illustrate the answers wherever necessary

USE SEPARATE ANSWER SCRIPT FOR EACH GROUP

Group-A

[Aquaculture and Fish Technology]

[F.M. - 20]

1. Answer any two questions from the following:

2x2 = 4

- a) Write about the optimum water and soil condition for fish culture.
- b) Distinguish between fishery and aquaculture
- c) Write a note on history of aquaculture.
- d) Name four fish by products that are economically important.

2. Answer any two questions from the following: 2x4 = 8

- a) Write a note on fishery extension with example.
- b) Write about the guideline of organic aquaculture. Mention its importance.
- c) Write briefly the fishing harvesting and processing techniques of fine fish.
- d) Discuss the ecological impact of coastal shrimp farming.

3. Answer any one questions of the following: 1x8 = 8

- a) Write briefly the rewlation between feeding and growth of fin fishes.
- b) Write the causative agent, symptom and preventive measure of bacterial disease (any one) and fungal disease (any one) of carp.

Group-B

[Inland and Marine fishery]

[F.M. - 20]

- 4. Answer any two questions from the following: $2x^2 = 4$
 - a) Name two marine and two estuarine fishes.
 - b) Write down the salinity range of both estuarine and marine zone of ocean.
 - c) What do you mean by reservoir? Give an example from West Bengal.

d) Define waste water. Name two waste water fishes.

5. Answer any two questions from the following: 2x4 = 8

- a) Give a quantitative measurement of fresh water distribution in India.
- b) Write the prospects of reservoir fishery in India.
- c) Write the criteria for selection of fishes in aquaculture system.
- d) Write about secondary treatment of waste water.

6. Answer any one question of the following: 1x8 = 8

- a) Define estuary. Why estuary is so important in fishery?
 Write a note on estuarine fishery in West Bengal.
 2+2+4
- b) What is the full form of GIS? Write down the working Principle of RS-GIS and its application in marine fisheries.

2+4+2
