Zoology (P.G.)

[CBCS]

M.Sc. Fourth Semester End Examination-2024

[Regular & Supplementary Paper]

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

Marks 20

[Aquaculture and Fish technology]

1. Answer any two questions from the following: **2x2= 4**

a. What is poly culture?

b. Name any four fish by products which are beneficial in our daily life.

c. Write down the difference between fishery and aquaculture.

d. Mention two physical and two biological factors that affect the productivity of ponds.

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

a. Write down the present status of prawn fishery in West Bengal. 4

b. i) Write down the difference between cage and pen culture.
ii) Name two predator fish and two predator aquatic insects. 2+2

c. Write a note on weed fish fisheries.

d. i) Which pH is ideal for aquaculture and why?
ii) Define standing crop and biotic potential.

3. Answer any one question from the following: 1x8= 8

a. Briefly describe the intensive aquaculture practice in West Bengal. 8

b. What do you mean by organic aquaculture?
Present the guideline to setup an organic aquaculture farm. Mention its problem and prospect. 2+4+2

Group-B

Marks 20

[Inland and Marine Fishery]

1. Answer any two questions from the following: 2x2= 4

a. Write the scientific name of two marine fishes.

b. Define estuary. Give two examples from Indian region.

c. Define aquacultural Name two aqua Mural resources of West Bengal.

d. What do you mean by reservoir? Give an example from West Berngal.

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

a. Write a note on aquaculture trends in India.

b. Write about merits and demerits of reservoir fishery.

c. Illustrate the characteristics features of a good site for fish farming.

d. What will be the criteria of a commercially cultivable fish species?

3. Answer any one question from the following: 1x8= 8

a. Discuss the principle of RS-GIS and write its application in fishery science. 4+4

b. Define waste water. Describe secondary treatment of waste water for Pisciculture. 2+6

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