

**K-554**

Total Pages : 3

Roll No. ....

**MSCZO-607**

**Fish and Fisheries (Applied Ichthyology)  
(Fisheries Culture, Breeding and Pathology)**

M.Sc. Zoology (MSCZO)

4th Semester Examination, 2023 (Dec.)

**Time : 2 Hours]**

**Max. Marks : 70**

**Note :** This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

**SECTION-A  
(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. Explain the different breeding method used in fish farming and their advantage and disadvantage.
2. Describe the different pond ecosystem including the biotic and abiotic factors of pond ecosystem.
3. Explain Sewage feed fisheries in detail.
4. Explain in detail the paddy-cum-fish farming.
5. Discuss the fungal disease including common fungal pathogens that affect fin fish in aquaculture.

## **SECTION-B**

### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. What are the General Requirements of Fish Hatcheries?
2. What is the growth of fish?
3. Write short notes on :
  - (a) Fish tagging.
  - (b) Radio-carbon uptake method.

4. Explain the basic steps of pond water management.
  5. Briefly describe Natural and synthetic fibers used for fishing gears.
  6. Write the scope of Cold water aquaculture in Uttarakhand.
  7. Write a short note on parasitic and nutritional fish diseases.
  8. Write a short note on larvivorous fishes.
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