

**A-0086**

Total Pages : 3

Roll No. ....

**MSCZO-606**

**M.Sc. Zoology (MSCZO)**

**[Fish and Fisheries (Structure and Functions)]**

Examination, June 2025

Time : 2:00 Hrs.

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)**     2×19=38

**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.

1. Explain hypothalamo-hypophyseal system in fish.
2. Describe structure and function of epidermis and dermis in fish.
3. With a well labelled diagram explain the respiratory system of the fish.
4. Explain the structure and function of fish eye with a well labelled diagram.
5. Write about types and mode of reproduction in fish and role of environmental factors on fish gonad.

## **SECTION–B**

**(Short Answer Type Questions)**      4×8=32

**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.

1. Write about Adaptations in deep sea.
2. What are fish fin ? Give their types.
3. Write a short notes on the following :
  - (a) Corpuscles of stannius
  - (b) Urophysis

4. Write a short note on locomotion in fish.
5. Write about osmoregulation in fish.
6. Discuss about cranial nerves in fishes.
7. Briefly write about nest building and parental care in fishes.
8. Write a short notes on :
  - (a) Electric organs
  - (b) Luminescent organs

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