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NY—171—2023

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

ZOOLOGY

Paper—XIII—B

(Fishery Science—I (Fish Morphology, Anatomy and Physiology—I))

(Saturday, 9-12-2023)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—75

N.B. :- (i) Attempt all questions.

(ii) All questions carry equal marks.

(iii) Illustrate your answers with suitable labelled diagrams wherever necessary.

1. Give an account of classification in fish.

15

Or

Describe the types of scales in Fish.

2. Describe the structure of skull and vertebral column in bony fish.

15

Or

Explain alimentary canal and its modification in fishes.

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3. Give an account of afferent and efferent branchial vessels in Teleosts. 15

Or

Explain the types of gills and their structure in fish.

4. Describe excretion and osmoregulation in freshwater fishes. 15

Or

What are biological rhythms ? Explain role of rhythms in Fish reproduction and migration.

5. Write notes on any *three* of the following : 15

- (a) Difference between teleostami and elamobranchii
- (b) Chromatophores
- (c) Accessory respiratory organs in fish
- (d) Osmoregulation in marine fish.

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