

M.Sc. 1st Semester Examination, 2024

FISHERIES SCIENCE

*(Taxonomy, Classification, Biology, Biodiversity &
Conservation of Fishes)*

PAPER—FSC-103

Full Marks : 25

Time : 1 hour

Answer **all** questions

The figures in the right hand margin indicate marks

*Candidates are required to give their answers in
their own words as far as practicable*

GROUP — A

1. Answer any *two* questions from the following :

2 × 2

(a) Define holotype and paratype with examples.

- (b) Write the systematic position and feeding habit of *Catla catla*.
- (c) Differentiate exotic species from invasive species.
- (d) Define Index of Biotic Integrity.

GROUP – B

2. Answer any *two* questions from the following : 4×2
- (a) Discuss Homonymy and Synonymy with proper examples.
 - (b) Give an account of the International Code of Zoological Nomenclature.
 - (c) Write on the life cycle of *Penaeus monodon*.
 - (d) Give an account of the Biodiversity Index with a proper mathematical example.

GROUP – C

3. Answer any *one* question from the following : 8×1

- (a) Give an account of the fish diversity in India. Define the different IUCN categories and give examples from fish. State on different *ex-situ* conservation of fish biodiversity. $2 + 3 + 3$
- (b) Define biosystematics. Write a note on different morphometric characteristics of fish for taxonomic study. Add a note on different modern tools and techniques used in taxonomic identification. $1 + 4 + 3$

[Internal Assessment – 5 Marks]
