

M.Sc. 1st Semester Examination, 2024

FISHERIES SCIENCE

(Anatomy and Physiology of Finfish and Shellfish)

PAPER – FSC-105

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) What is the role of bile in fish digestion ?
- (b) Compare the stomach structure of herbivorous and carnivorous fish.

- (c) Mention the hormones secreted from adenohypophysis.
- (d) Write a name of different types of fish blood cells and their function.

GROUP – B

2. Answer any *two* questions from the following : 4 × 2
- (a) Describe the digestive system of fish and explain the process of digestion.
 - (b) Explain the role of gill filaments in fish respiration and their role in gaseous exchange.
 - (c) Briefly describe process of oogenesis in teleost fish.
 - (d) Give an account of accessory respiratory organ of *Anabas* and *Channa* species.

GROUP – C

3. Answer any *one* question from the following : 8 × 1
- (a) Give an account of different types of endocrine glands of a teleost fish mentioning their location and secretions.
- (b) Write brief note on : 5 + 3
- (i) Osmoregulation in fish in respect to salinity
- (ii) Hormones controlling osmoregulation in fish.

[Internal Assessment – 5 Marks]
