

Total number of printed pages-4

3 (Sem-6/CBCS) ZOO HE 2

2025

ZOOLOGY

(Honours Elective)

Paper : ZOO-HE-6026

(Fish and Fisheries)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Fill in the blanks : **(all seven)** $1 \times 7 = 7$

(a) Osmoregulation is _____.

(b) _____ is the first transgenic fish that was used as food.

(c) Epizootic ulcerative syndrome (EUS) in fish is primarily a _____ disease.

(d) Scales in fish can be used in determining the _____ of fish.

- (e) Argulosis is a disease in fish caused by the infestation of _____.
- (f) The collection of reproductively mature adult fish within a population that breed is referred to as _____.
- (g) Inland fisheries involve cultivating and catching fish in _____ environments.

2. Answer **all four** questions : $2 \times 4 = 8$

- (a) Write *two* characters of *Chondichthyes* fishes.
- (b) What are the different types of fins in a fish ?
- (c) Write the basic principle of Composite fish culture.
- (d) Write the functions of Swim Bladder in fish.

3. Write short notes on : **(any three)** $5 \times 3 = 15$

- (a) Types of scales in fish
- (b) Electric organs in fish

- (c) Pen culture
- (d) Zebra fish as a model organism in research
- (e) Parental care in fish

4. Answer the following questions : $10 \times 3 = 30$

- (a) What is Migration ? Describe the different types of migration in fish with examples. Write the factors influencing in fish migration. $2 + 6 + 2 = 10$

OR

Describe various Fishery byproducts with their methods of preparation and uses. 10

- (b) What is remote sensing ? Write the application of remote sensing and GIS in fisheries. $2 + 8 = 10$

OR

Describe the bacterial and fungal diseases of fish with their symptoms and prophylaxis. 10

- (c) What is Sustainable Aquaculture? Describe extensive, semi-intensive and intensive culture of fish with their stocking density and production.

2+8=10

OR

What is Induced breeding? Describe the hypophysation technique of induced breeding of fish.

2+8=10
