

- (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

OR

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

(b) What is remote sensing? Write the application of remote sensing and GIS in fisheries.

OR

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

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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) 1×7=7

- Osmoregulation is \_\_\_\_\_.
- \_\_\_\_\_ is the first transgenic fish that was used as food.
- Epizootic ulcerative syndrome (EUS) in fish is primarily a \_\_\_\_\_ disease.
- Scales in fish can be used in determining the \_\_\_\_\_ of fish.

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- (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 : 2×4=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) 5×3=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 : 10×3=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

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