

(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

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- (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. $2 \times 6 + 2 = 10$

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. $2 \times 8 = 10$

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. $2 \times 8 = 10$

OR

What is Induced breeding ? Describe the hypophyisation technique of induced breeding of fish. $2 \times 8 = 10$

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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.