

Total No. of Printed Pages—3

6 SEM TDC DSE ZOO (CBCS) 2 (H)

2025

(May)

ZOOLOGY

(Discipline Specific Elective)

(For Honours)

Paper : DSE-2

(**Fish and Fisheries**)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

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

1. Fill in the blanks :

1×5=5

- (a) Fishes that migrate between freshwater and marine environments for spawning are called ____.
- (b) ____ scales are found exclusively in cartilaginous fishes.
- (c) ____ is a traditional fishing craft used in marine fisheries.

(2)

- (d) The hormone _____ is commonly used for induced breeding in fishes.
- (e) The first transgenic fish approved for human consumption is _____.

2. Write short notes on (any two) : 3×2=6

- (a) Placoid scales
- (b) Mechanoreceptors in fish
- (c) Application of GIS in fisheries
- (d) Fishing gears

3. Differentiate between (any two) : 3×2=6

- (a) Anadromous and Catadromous migration
- (b) Extensive and Semi-intensive culture of fish
- (c) Chondrichthyes and Osteichthyes
- (d) Pen and Cage culture

4. Classify fishes up to class with examples. 9

Or

What are transgenic fishes? How are they produced? Discuss the advantages of transgenic fish over normal fish culture.

1+3+5=9

5. Write about the various types of reproductive strategies adopted with special reference to Indian fishes. 9

Or

What is parental care? Discuss the various types of parental care found in fishes with suitable illustrations. 2+7=9

6. Define induced breeding of fish. Write a note on the principle and procedure of induced breeding in fishes. 1+2+6=9

Or

Define aquarium. Write a note on the preparation and maintenance of fish aquarium. 1+8=9

7. What are the causes of depletion of fisheries resources? Write briefly about the fisheries law and regulations. 3+6=9

Or

Write an essay on common fish diseases and their symptoms. How do you control fish diseases? 7+2=9

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