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

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(June/July)

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) Fish scales are produced from the _____
layer of the dermis.

(b) Fish that give birth to live young is
called _____ fish.

(c) Migration of fish from freshwater to sea-
water is called _____.

(2)

- (d) Weberian ossicles increase a fish's sensitivity to ____.
- (e) Fin rot is a fish disease resulted from a ____ infection.

2. Distinguish between the following pairs (any two) : $2 \times 2 = 4$

- (a) Osteichthyes and Chondrichthyes
- (b) Gills and Air Bladder
- (c) Cycloid scales and Placoid scales

3. Write short notes on (any two) : $5 \times 2 = 10$

- (a) Bioluminescence
- (b) Induced breeding of fish
- (c) Transgenic fish

4. What are the general characters of fish? Give an account of systematic classification of Pisces up to classes. $5 + 7 = 12$

Or

What is pisciculture? Give a note on different kinds of fish culture practices. $2 + 10 = 12$

(3)

5. What are fishery by-products? Give a note on preservation and processing of fish. $3 + 7 = 10$

Or

Describe the application of remote sensing and GIS in fisheries. $5 + 5 = 10$

6. What is induced breeding of fish? Describe the management of finfish hatcheries. $2 + 10 = 12$

Or

What is fish aquarium? Describe the different diseases of fish. $2 + 10 = 12$
