

2121

B.A./B.Sc. (General) Fifth Semester  
Zoology

Paper II [Opt. (iii)]: Applied Zoology - I: Inland Fisheries and Aquaculture - I (ZOO-502C)

Time allowed: 3 Hours

Max. Marks: 36

**NOTE:** Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question each from Unit. Draw relevant diagrams wherever necessary.

x-x-x

I. Explain the following briefly :-

- a) Intensive fish culture.
- b) What are the merits fish Pen culture?
- c) Write scientific names of any two salt water fishes.
- d) What is the method of preparation of pituitary extract?
- e) Fish meat is better than that of other animals. Comment on this statement.
- f) Carrying capacity of fish pond.
- g) Advantage of liming of fish pond.
- h) Composite fish culture.

(8x1)

**UNIT - I**

II. Give an account of cage culture in fishes. Comment upon advantages and disadvantages of this technique. (7)

III. Write brief notes on the following:-

- a) Morphology and economic importance of *Wallago attu*.
- b) Characters of air breathing fishes.

(4,3)

**UNIT - II**

IV. Explain the following:-

- a) Bionomics of *Catla catla*.
- b) Food value in relation to vitamins and minerals in fish.

(4,3)

P.T.O.

(2)

- V. Discuss the various modifications in the structure of mouth of various fishes in relation to their feeding habits. (7)

**UNIT - III**

- VI. a) Write the importance of introducing exotic fishes in inland waters. (4,3)  
b) Write the morphology of any two exotic food fishes. (7)
- VII. Describe the techniques of induced breeding. Write its significance. (7)

**UNIT - IV**

- VIII. Give a brief account of various types of ponds, used in Pisciculture. Discuss the management of a nursery pond and breeding pond. (7)
- IX. Discuss various measures to control the growth of weeds. (7)

x-x-x

C4KNOWLEDGE SEEKERS