ZOOLOGY

Paper : 206 E

AQUACULTURE

Full Marks: 40 Time: 2 hours

The figures in the margin indicate full marks for the questions

1. Answer the following (Any four):

1x4 = 4

- i. Which of the following statement is incorrect?
 - a) Nektons are swimmer animals from small to large size
 - b) Benthos are bottom dweller organism
 - c) Phytoplanktonic algae help in the purification of water by replacing dissolved co, in water with o₂.
 - d) Zooplankton acts as primary producer in the aquatic pond ecosystem.
- ii. Stenohaline fishes are
 - a) Marine fishes having narrow range of salt tolerance
 - b) Marine fishes high range of salt tolerance
 - c) Fresh water fishes adapted to marine water fishes
 - d) All the above.

iii. Mesotrophic lakes refers to

- a) with an intermediate level of productivity
- b) commonly clear water lake with medium levels of nutrients.
- c) The term mesotrophic is also applied to terrestrial habitats
- d) all the above
- iv. The optimum temperature range for the best growth of fishes in warm water lies between
 - a) 25°c -32°c
- b) 20°c-28°c
- c) 20°c-25°c

d) 24°c -28°c

v. A biotope is

- a) An area of uniform environmental conditions providing a living place for a specific assemblage of plants and animals.
- b) A small scale phenomenon like aquarium.
- c) Both (a) and (b)
- d) Generally considered to be a large-scale phenomenon.

2. Answer the following (Any three):

2x3 = 6

P.T.O.

- a. Mention the ecological importance of wetland ecosystem.
- b. Write the characteristic features of eastuarine ecosystem and their importance to capture fishery.
- c. what are the difference between capture and culture fisheries.
- d. write briefly about the cold water fisheies of india.

3. Answer the following questions (Any two):

5x2 = 10

- a. Trophic state index.
- b. seasonal and diurnal variation of planktons
- c. write about the objectives of Ramsar Site.

4. Answer the following questions (Any one):

8x1=8.

- a. Describe the abiotic profile of freshwater ecosystem that should be maintained for high yield of fishery production.
- b. What do you mean by aquatic productivity? Describe the principle and measurement technique of primary and secondary productivity?

5. Answer the following questions (Any one):

12x1=12

- Discuss some common approaches of conservation of water and their management practices for sustainable development of aquatic resources.
- b. Discuss the classification of plankton and their significance in aquaculture with example of common phytoplankton of Indian rivers.
