

(6 pages)

Reg. No. :

Code No. : 5458

Sub. Code : ZZOE 41

**M.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2023**

Fourth Semester

Zoology

Elective — AQUACULTURE

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Identify the term related with Aquaculture

- (a) Green revolution
- (b) Brown revolution
- (c) White revolution
- (d) Blue revolution

2. FSI stands for —

- (a) India fast service
- (b) Fishery survey of India
- (c) Fast service
- (d) None

3. Match the following with Pearl

- | | |
|---------------|-------------|
| (a) Phosphate | (b) Calcium |
| (c) Nacre | (d) Carbon |

4. Select the name given to the rearing of single species in water

- | | |
|----------------------|-------------------|
| (a) Monoculture | (b) Polyculture |
| (c) Poly sex culture | (d) None of above |

5. Identify the following which helps to control the pH in open system of seed fish transport.

- | | |
|------------------|-----------------|
| (a) Banana Juice | (b) Grape juice |
| (c) Apple | (d) Lemon juice |

6. Name the traditional fishing craft of Kerala

- | | |
|----------------|--------------|
| (a) Kattumaram | (b) Boats |
| (c) Gill nets | (d) Trawlers |

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7. Name a small pond which is used to isolate and keep the diseased fish.
- (a) Sluice gate (b) Hospital pond
(c) Nursery pond (d) Rearing pond
8. Name of the platform area which is present between the wet space and water area.
- (a) berm (b) inlets
(c) outlets (d) dry slope
9. Match the following with Calcium and phosphorus deficiency.
- (a) Turner syndrome
(b) Soft shell syndrome
(c) Dwarfism
(d) Down syndrome
10. Match the flow of fish and money in fish marketing is _____.
- (a) Marketing channel
(b) Fish farms
(c) Commission agents
(d) None

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Summarize an abiotic factors of lake necessary for fish life.
- Or
- (b) Interpret the scope of aquaculture.
12. (a) Discuss in detail about the Paddy cum fish culture.
- Or
- (b) Explain the weed culture.
13. (a) Illustrate the different methods of seed fish transport.
- Or
- (b) Explain the transgenic fish.
14. (a) Summarize the by products of fish and its uses.
- Or
- (b) Order the site selection for fish ponds.



15. (a) Write the causatives, symptoms of infectious pancreatic necrosis.

Or

- (b) Write about the fungal disease and its control measures.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Discuss an importance of aquaculture.

Or

- (b) Summarize the fishery resources in India.

17. (a) Write the different steps in Oyster culture.

Or

- (b) Explain the sewage fed fish culture.

18. (a) Explain the types of crafts.

Or

- (b) Predict the role of biotechnology in conservation of fish.

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19. (a) Summarize the construction of ponds.

Or

- (b) Defend the preservation of fish.

20. (a) Write an effect of water pollution on fisheries and its control measures.

Or

- (b) Write the causative agent, symptoms and control measures of Epizootic ulcerative syndrome.

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