

(6 pages)

Reg. No. :

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M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2021.

Fourth Semester

Zoology – Core

AQUACULTURE

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. ——— is organized production of a crop in the aquatic medium.
 - (a) Biotechnology
 - (b) Aquaculture
 - (c) Fish breeding
 - (d) Fish culture

2. Seaweeds are a rich source of
 - (a) Carbohydrates
 - (b) Protein
 - (c) Iodine
 - (d) Fat
3. Oyster farming is practiced in
 - (a) Peru and Chile
 - (b) North America
 - (c) Japan
 - (d) China
4. Which of the following is not a variety of seaweed?
 - (a) Green algae
 - (b) Yellow-green algae
 - (c) Red algae
 - (d) Brown algae
5. ——— fishing is used to catch naturally schooling fish which can be attracted to the surface.
 - (a) Pots
 - (b) Pole and line
 - (c) Purse seining
 - (d) Seine netting

6. ——— is one of the method which is used in fish breeding.
- (a) Bundle breeding
 - (b) Stripping
 - (c) Both (a) and (b)
 - (d) Hypophysation
7. Smoking is used as a technique of
- (a) Fish preservation
 - (b) Crop harvesting
 - (c) Crystallisation of sugar
 - (d) Mushroom cultivation
8. ——— is a receptacle that hold one or more fresh water aquatic organism for decorative and pet keeping.
- (a) Aquarium
 - (b) Fresh water aquarium
 - (c) Fish farm
 - (d) Fish pond
9. ——— is bacterial disease in fish.
- (a) Furunculosis
 - (b) Dropsy
 - (c) Vibriosis
 - (d) All the above

10. Fish die in water polluted by sewage due to
- (a) Pathogen
 - (b) Reduction in oxygen
 - (c) Both (a) and (b)
 - (d) Foul smell

PART B — ($5 \times 5 = 25$ marks)

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

Each answer should not exceed 250 words.

11. (a) Given an account in biotic factors necessary for fish life.

Or

- (b) Comment on the role of nutrients in lake ecology.

12. (a) Write a note in crafts and gears.

Or

- (b) Give an account on pearl culture.

13. (a) How do you transport live fish and seed? Explain.

Or

- (b) Write short notes on hypophysation and stripping.

14. (a) List on the methods involved in preservation of fish.

Or

- (b) How do you select site for constructional of fish farm?

15. (a) List out the nutritional value of fish.

Or

- (b) Give an account on bacterial and fungal diseases.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Comment on sewage fed fish culture and paddy cum fish culture.

Or

- (b) Differentiate fresh water and marine water fish culture.

17. (a) Write an essay on fishery resources in Tamil Nadu.

Or

- (b) Give an account on ecological characteristics of river.

18. (a) What are transgenic fishes? Explain.

Or

(b) Give an account on common weeds of fish pond and explain different methods of their eradication.

19. (a) How do you construct different types of fish ponds? Explain.

Or

(b) Comment on setting and management of fresh water aquarium.

20. (a) Explain the fisheries management and extension.

Or

(b) Write an essay on biochemical and nutritional value of fish.
