

(6 Pages)

Reg. No. :

Code No. : 5398

Sub. Code : PZOM 43

M.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2022.

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. The following state has the highest marine fish production in India(a)
- (a) Maharashtra (b) Gujarat
- (c) Kerala (d) Tamil Nadu

2. The maximum production of Chinese pomfret is from the state of
- (a) Karnataka (b) Kerala
- (c) Maharashtra (d) Orissa
3. If more than single species of fish is culture at a time, then it is called
- (a) Polyculture (b) Mori culture
- (c) Monoculture (d) Aquaculture
4. In Paddy-cum-carp culture fishes are stocked at the rate of
- (a) 2000 – 3000/ha (b) 4000 – 6000/ha
- (c) 5000 – 6000/ha (d) 7000 – 9000/ha
5. The most efficient gear used for exploiting the pelagic fishery resources along Karnataka coast is _____
- (a) Rampani (b) Beachsiene
- (c) Dol net (d) Scoop net
6. Roundup herbicide is a trade name of
- (a) Pretilachlor (b) Pendo,athalin
- (c) Alachlor (d) Glyposate

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7. Which of the following is not a freshwater fish?

- (a) Labeo rohita (b) Labeo calbasu
(c) Mackerel (d) Clarias batrachus

8. What is the required area for rearing ponds?

- (a) 0.02 – 0.06 ha (b) 0.10 – 0.15 ha
(c) 0.08 – 0.012 ha (d) 0.06 – 0.010 ha

9. Which one of the following attacks the optic nerve and the brain of fish?

- (a) Pseudomonas
(b) Aerononas liquesfasciens
(c) Saprolegnia
(d) Branchimysis

10. Which one of the following is an economically important marine fish?

- (a) Rohu (b) Catla
(c) Hilsa (d) Cyprinus

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PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Discuss the present status of aquaculture in India

Or

(b) Briefly narrate the problems of lake fishery

12. (a) Briefly describe the methods of composite fish culture.

Or

(b) Give an account on "Pearl formation".

13. (a) Write a short note on Transportation of fish seed.

Or

(b) Discuss monosex production of fish populations.

14. (a) Why plankton is important in culture?

Or

(b) Describe the freshwater aquarium setup

15. (a) Give a short note of Fungus disease in fish, diagnosis and treatment.

Or

(b) What is the economic importance of fish?

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PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words.

16. (a) Describe physical factors present in water required for fish culture.

Or

- (b) Explain the conservation strategies of India reservoirs.

17. (a) Mention the steps involved in fresh water prawn culture.

Or

- (b) Write an essay on pearl oyster culture with reference to seed technology of pearl production.

18. (a) Describe about important factors to be considered while constructing Fish pond.

Or

- (b) Give an account of the application of biotechnology in fisheries and aquaculture development.

19. (a) Explain in detail the optimum physicochemical conditions for water in culture ponds.

Or

- (b) Describe in detail about fish by products and their industry uses.

20. (a) Write an essay on emerging viral diseases symptoms – treatment – therapy in fin fish.

Or

- (b) Give an account of biochemical composition and nutritional value of fish.

