

(FOR THE CANDIDATES ADMITTED

22UZY6E7

DURING THE ACADEMIC YEAR 2022

ONLY)

REG.NO.

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : May 2025

B.Sc., ZOOLOGY (AIDED)

MAXIMUM MARKS: 50

SEMESTER-VI

TIME : 3 HOURS

PART – III

22UZY6E7-AQUACULTURE

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS. (K1)

1. Which Indian state is leading in freshwater aquaculture production?
a) Odisha b) West Bengal c) Bihar d) Andhra Pradesh
2. What is the typical depth of a culture pond?
a) 0.5–1 meter b) 1–1.5 meters c) 1.5–2 meters d) 2–3 meters
3. Which of the following is the most common type of Oyster grown for commercial purposes?
a) Pacific oyster b) Eastern oyster c) European flat oyster d) Kumamoto oyster
4. Which type of fishing boat is designed to operate in deep-sea waters?
a) Canoe b) Dinghy c) Trawler d) Drift boat
5. The following one is a live bearer aquarium fish category_____
a) Gold fish b) Sword tail c) Angel fish d) Betta fish

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES (K2)

6. State the feeding habit of *Labeo rohita*.
7. What is Acclimatization of fish?
8. Define Recirculating Aquaculture Systems (RAS).
9. Explain 'wet salting'?
10. Brief Transgenic fishes.

SECTION – B

(5 X 3 = 15 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Highlight the scope and importance of Aquaculture in India.

(OR)

- b) Illustrate the digestive system of *Labeo rohita* with a neat labeled diagram.

12. a) Outline the steps involved in hypophysation of fish.

(OR)

- b) Explain the process of culturing *Artemia* and its application in aquaculture.

(CONTD 2)

13. a) What is Biofloc technology? Highlight its applications in the animal food industries.

(OR)

- b) Assess the stages involved in the pearl oyster culture.

14. a) Point out the metrics used to identify the good and spoiled fish.

(OR)

- b) List and explain the nets which are used in commercial and industrial fishing and explain it.

15. a) Evaluate the techniques in transport and marketing of ornamental fish.

(OR)

- b) Comment on the symptoms and treatment of Gill rot disease.

SECTION – C

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)

16. a) What makes Rohu one of the most widely cultivated freshwater fish in India? Explain.

(OR)

- b) Prove whether fish meal can be considered a balanced diet based on its nutrient composition.

17. a) Compare and contrast polyculture and integrated culture methods.

(OR)

- b) Classify artificial feeds based on their composition and discuss the role of each type in the growth and development of fish.

18. a) Comment on the freshwater culture of Indian Major Carps.

(OR)

- b) Discuss the different methods of prawn culture systems and their advantages and disadvantages.

19. a) State the different types of fishing hooks and compare their specific uses.

(OR)

- b) Compare between Freeze Drying and Fumigation methods of fish preservation.

20. a) Evaluate the essential requirements for setting up a freshwater aquarium.

(OR)

- b) Find the causative agent, symptoms, treatment and control measures of bacterial diseases.
