

Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree Examination, April 2022****First Degree Programme Under CBCSS****Zoology****Elective Course****ZO 1661.2 ORNAMENTAL FRESH WATER FISH PRODUCTION****(2018 & 2019 Admission)**

Time : 3 Hours

Max. Marks : 80

- I. Answer the following questions in **one** or **two** sentences. Each question carries 1 mark each.
1. Give the scientific name of Fighter fish.
  2. What is Brine Shrimp?
  3. Name two bacterial diseases of fish.
  4. Mention the importance of live feed in ornamental fishery.
  5. Give the scientific name of State fish of Kerala.
  6. Write the scientific name of Miss Kerala.
  7. What do you mean by Nuptial colouration?
  8. What is infusoria?
  9. What is Ceratophyllum?
  10. What are the Chemical factors influencing aquatic productivity?

**(10 × 1 = 10 Marks)**

P.T.O.

II. Answer **any eight** of the following (Not to exceed **one** paragraph. Each question carries **2** marks.)

11. Write the common name of any two Cichlids.
12. Write on chemical filters used in aquarium.
13. Name the hormones used for induced breeding in fish.
14. Name two exotic ornamental fishes.
15. Name any four live bearers.
16. Write the scientific name of Climbing Perch and Malabar Loach
17. Name any two fungal diseases of fishes.
18. Name the various materials used for bedding preparation of aquarium.
19. Write a note on working principle of aerators.
20. Comment on mouth-brooders.
21. What is gravid spot?
22. Write short note on *Pterophyllum scalare*.
23. Write on fish feed formulation.
24. Write on management of brood stock.
25. Write scientific name of any four indigenous ornamental Cyprinids.
26. Sexual dimorphism in ornamental fishes.

(8 × 2 = 16 Marks)

III. Answer **any six** of the following (Not to exceed **120** words. Each question carries **4** marks.)

27. Filtration is an important process in an aquarium. Why?
28. Explain different categories of plants used in aquarium.
29. What is the present status of ornamental fish culture in Kerala?
30. Discuss in detail breeding practices of goldfish.



31. What are the different ingredients used in artificial fish feed production and explain its importance and composition in the feed?
32. Write note on chemical factors involved in aquaculture.
33. Write on major indigenous aquarium fishes of Kerala.
34. Write a note on importance of algae in aquaculture.
35. Write down various measures involved in control of insects.
36. Explain hybridization techniques in ornamental fish reproduction.
37. Give an account on live bearers and egg layers.
38. Explain in detail diseases associated with nutritional deficiencies in fish. (Explain any 5 diseases).

(6 × 4 = 24 Marks)

IV. Answer **any two** of the following. (Each carries **15** marks.)

39. Elaborate physical factors involved in aquaculture.
40. Explain viral and bacterial diseases of ornamental fishes.
41. Explain induced breeding in fish.
42. Write down various measures involved in control of predators and snail.
43. Write down the steps involved in setting up of an aquarium.
44. Breeding and rearing of Fighter fish and Gourami.

(2 × 15 = 30 Marks)