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R – 1307

Reg. No. :

Name :

• Sixth Semester B.Sc. Degree Examination, April 2023

First Degree Programme under CBCSS

Zoology

Elective Course

ZO 1661.2 : ORNAMENTAL FRESH WATER FISH PRODUCTION

(2015 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

- I. Answer the following questions in **one** or **two** sentences.
1. Write the scientific name of two ornamental catfishes.
 2. Name two Live bearers.
 3. Name two egg layers.
 4. What is artemia?
 5. Name two fungal diseases of fish.
 6. Name two hormones used for induced breeding of fish.
 7. What is gravid spot?
 8. What are the various materials used for aquarium construction?
 9. Sexual dimorphism.
 10. Give the scientific name of Zodiac loach.

(10 × 1 = 10 Marks)

P.T.O.

II. Answer any **eight** of the following not to exceed one paragraph. Each carry **2** marks.

11. Importance of clay in aquarium.
12. What is *Etiloplus suratensis*?
13. What is breeding happa?
14. What is artificial feed?
15. Explain ichthyophthiriosis disease in aquarium fishes.
16. What do you mean by chemical mode of filtration?
17. What is the present condition of ornamental fish export from India?
18. What is the purpose of aquaculture?
19. What is spawning season? How can it identify?
20. Protozoan diseases of fish.
21. Write the scientific name of two indigenous ornamental fishes.
22. Comment on aerators.

(8 × 2 = 16 Marks)

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

23. Write an account on ornamental Cichlids.
24. Explain various methods involved in the removal of waste from an aquarium.
25. Describe various colour enhancement techniques used in ornamental fish culture.
26. Explain construction and maintenance of self sustainable aquarium.

27. Indigenous fishes are the major attraction in aquarium. Discuss.
28. Describe the varieties of aquarium plants.
29. Explain in detail diseases associated with nutritional deficiencies in fish.
30. Classify Aquarium based on material, shape and size.
31. Write an account on preparation and culture of live feed.

(6 × 4 = 24 Marks)

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

32. Elaborate the chemical factors of aquarium systems.
33. Briefly explain the fungal and protozoan fish diseases.
34. Explain hypophyztion techniques in fish reproduction.
35. Write down the identification and biology of any seven indigenous ornamental fishes.

(2 × 15 = 30 Marks)