

Reg. No. :

Name :

Sixth Semester B.Sc. Degree Examination, March 2020.

First Degree Programme under CBCSS

Elective Course

ZO 1661.2 ORNAMENTAL FRESH WATER FISH PRODUCTION

(2015 Admission onwards)

Time : 3 Hours

Max. Marks : 80

Draw diagrams wherever necessary

I. Answer **all** the following questions. (In one or two sentence. One mark each)

1. Formulated feeds.
2. How can chlorinated tap water be treated to use in aquarium?
3. What causes cotton wool like growths on fish body?
4. Mention an artificial method to provide oxygen in an aquarium.
5. *Betta splendans*.
6. Two indigenous ornamental fishes.
7. Name the English naturalist who coined the term- aquarium.

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8. Leucophores and Iridophores.
9. Selective breeding.
10. Give the scientific name of koi carp.

(10 × 1 = 10 Marks)

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

11. Give the scientific names of pearl spot and chromides.
12. Comment on spawning.
13. Bring out the role of sucker fishes in setting up an aquarium.
14. Explain the effects of ozonisation in fish tanks.
15. Give examples of any four aquarium plants.
16. Describe the processes involved in the base setting of an aquarium.
17. Natural plants are preferred over artificial ones in aquaria - justify.
18. Mention the role of artificial heater in an aquarium.
19. Explain vulnerable species.
20. What is the new tank syndrome?
21. Give the advantages of selective Breeding.
22. List any four diseases affecting Ornamental fishes.

(8 × 2 = 16 Marks)

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

23. Give methods to control algae and other predators in an aquarium.
24. What is induced breeding technique?
25. Explain the principle of a biological filter.
26. Briefly mention the conservation of indigenous aquarium fishes.
27. Write a short note on aquarium accessories.
28. Distinguish live - bearers from egg layers citing examples.
29. Comment on chromatophores responsible for colour enhancement in fishes.
30. How is the preparation of glass tanks done?
31. Comment on fish hybridization technique.

(6 × 4 = 24 Marks)

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

32. List the methods involved in water quality management in aquarium systems.
33. Write an essay on common fresh water ornamental fishes.
34. Explain the preparation and culture of live feed for fishes.
35. Describe the various fish brood stock management techniques.

(2 × 15 = 30 Marks)