

**2020/TDC(CBCS)/ODD/SEM/  
ZOOSEC-501T/037**

**TDC (CBCS) Odd Semester Exam., 2020  
held in March, 2021**

**ZOOLOGY**

**( 5th Semester )**

**Course No. : ZOOSEC-501T**

**( Aquarium Fish Keeping )**

Full Marks : 50

Pass Marks : 20

**Time : 3 hours**

*The figures in the margin indicate full marks  
for the questions*

**SECTION—A**

**Answer any fifteen of the following questions :**

**1×15=15**

- 1. Name the four things essential for a successful aquarium.**
- 2. Can we use the chlorinated tap water directly for aquarium? Give reason for your answer.**

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3. How much surface water is required for 2.5 cm of fish?
4. What is the ideal temperature for aquarium water for tropical fishes?
5. What should be the wattage of light bulb for an aquarium of 30 litres capacity?
6. Name a recently developed water filter for aquarium.
7. What do you understand by ornamental fish?
8. Name two ornamental fishes of N-E region exported as aquarium fish.
9. Why are breeding and rearing of ornamental fishes possible in N-E India?
10. Name two exotic aquarium fishes.
11. Name two aquarium plant species.
12. What is 'ageing' of water for aquarium?
13. What do you understand by sexual dimorphism?

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( Continued )

( 3 )

14. What is the other name of Guppy fish?
15. What is a gonopodium in molly fish?
16. State whether the swordtail fish is livebearer or egg-layer.
17. State whether the butterfly fish is freshwater fish or marine fish.
18. What do you understand by aquarium fish feed?
19. What are pellets and flakes fish food?
20. What do you understand by prepared foods for aquarium fishes?
21. What are Zebra Cichlids?
22. What is 'vacation food' for aquarium?
23. Name different organisms used as frozen fish diet in aquarium.
24. Mention few live food provided to aquarium fishes.
25. What is live fish transport?

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( Turn Over )

( 4 )

26. Mention the parameters to be maintained during live fish transport.
27. What is the ideal way of packaging for transport of live fishes?
28. How frequently the water in an aquarium be changed?
29. What are 'dead pockets' in the sand bed of aquarium?
30. How can an aquarium setup be made cost effective?

SECTION—B

Answer any *five* of the following questions :

2×5=10

31. State the scope of aquarium fish industry as a cottage industry in N-E India.
32. Name some endemic ornamental fishes of Barak Valley.
33. State the sexual dimorphism of angel fish.
34. State the characters of Zebra Cichlids.

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35. What are the basic components of formulated fish food?
36. Why is beta carotene used in some prepared fish foods?
37. What do you understand by oxygen pack system of fish transport?
38. Why should fishes not be shifted to higher or lower temperature suddenly?
39. Why should snails be removed during swarming in aquarium?
40. State the pH range to be maintained for aquarium water and why.

SECTION—C

Answer any *five* of the following questions :

5×5=25

41. Why are endemic species better suited than endemic species for tropical aquarium?
42. Elucidate the practice of fish-keeping in aquarium as a hobby.

43. State the general characteristics of aquarium fishes.
44. What do you understand by protandrous hermaphrodites? Give example. 4+1=5
45. What is the other name of anemone fish? State their natural habitat and distribution.
46. What are the main objectives of fish feed formulation? What specific knowledge is involved in it?
47. State the ideal composition of fish feed used for aquarium fishes.
48. What are different packaging and forwarding techniques for live fish transport?
49. Mention the techniques used to monitor water quality in aquarium.
50. Give a breakup of budget required to set up an industrial aquarium fish tank.

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