CENTRAL LIBRARY N.C.COLLEGE

2023/TDC(CBCS)/ODD/SEM/ ZOOSEC-501T/037

TDC (CBCS) Odd Semester Exam., 2023

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 *fifteen* questions, selecting any *three* from each Unit: 1×15=15

UNIT-I

- 1. What is meant by aquarium fish industry?
- 2. What is endemism?
- 3. Name one exotic aquarium fish species.

24J/53

(Turn Over)

4. Which is the largest aquarium fish market in India?

(2)

UNIT-II

- 5. What is meant by sexual dimorphism?
- 6. Give the scientific name of swordtail.
- 7. Cite example of a live-bearer ornamental fish species.
- 8. Name one ornamental fish species belongs to carp family.

UNIT-III

- 9. What is live-fish feed?
- 10. Cite example of two zoo planktons.
- 11. What are rotifers?
- 12. What is brine shrimp?

13. What is the favourable range of pH of the media for transportation of fish?

(3)

UNIT-IV

- 14. What is the permissible limit of CO₂ in the fish transportation medium?
- **15.** What are the agents used for maintaining pH in the traditional method of fish transport?
- 16. What are fish fry?

UNIT-V

- 17. Name two plant species used in aquarium.
- 18. What is the disinfectant used at the time of introduction fish species in an aquarium?
- 19. Name the scavenging animals usually introduced in the aquarium to consume the debris.
- 20. Tubifex worm belongs to which phylum?

24J**/53** (Turn Over)

(Continued)

(4)

SECTION-B

Answer *five* questions, selecting *one* from each Unit: 2×5=10

UNIT-I

- **21.** What is meant by ornamental fish culture? Discuss briefly.
- **22.** Why is aquarium fish industry known as cottage industry?

UNIT-II

- 23. Give four general characters of ornamental fish species.
- 24. Differentiate between egg-layers and live-bearers in aquarium fish species. Cite examples.

UNIT-III

- **25.** What are the essential qualities of formulated fish feeds?
- **26.** Differentiate between simple feed and compound feed. What is FCR?

UNIT-IV

- 27. What are possible causes of mortality of fishes during transportation?
- **28.** Write briefly the traditional method of transportation of live fish.

UNIT-V

- **29.** What is the importance of provision of light in an aquarium?
- **30.** Why is an optimal level of temperature necessary to be maintained in an aquarium?

SECTION—C

Answer *five* questions, selecting *one* from each Unit: 5×5=25

UNIT-I

- 31. Discuss the potential scope of aquarium fish industry as a cottage industry in India.
- **32.** Give an account of ornamental fish farming in India. What are the benefits of this farming?

I INIT—II

- 33. Enlist commercially important indigenous and exotic ornamental fish species with their common names and scientific names.
- 34. Give scientific name and biology of Angelfish and Guppy.

UNIT-III

- 35. Discuss the principles of fish feed formulation.
- 36. How are formulated fish feeds being prepared? Elucidate.

I INIT-IV

- 37. Discuss the closed system technique of transportation of live aquarium fishes.
- 38. What is the procedure of conditioning of fishes before transportation? Give a note on agents and anaesthetising ammonia absorbents used in closed system of fish transportation. 2+3=5

UNIT-V

- 39. Enumerate the minimal requirements for setting up an aquarium fish farm. Discuss briefly the technique of setting up biological filter in an aquarium and its utility. 2+3=5
- 40. Discuss the budgetary provisions and budgetary involvements for setting up a sustainable aquarium fish farm.

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