

# B.Sc. 4<sup>th</sup> Semester (Honours) Examination, 2021

Subject: ZOOLOGY

Course ID: 42615

Course Code: SH/ZOO/405/SEC-2

Course Title: Aquarium Fish Keeping

Full Marks: 40

Time: 2 Hrs

*The figures in the right hand margin indicate full marks.  
Candidates are required to give their answers in their own words.*

## UNIT - I

1. Answer *any five* of the following questions: (2×5=10)

- a) What do you mean by sequential hermaphroditism?
- b) What is Aqua scaping?
- c) Give two examples of live aquarium fish food.
- d) What is food additive? Give example.
- e) Write some functions of aquarium filters.
- f) Why aeration is necessary during long distance transport of aquarium fish?
- g) Write the scientific name of Sword tail and Butterfly fish.
- h) Give scientific name of two marine aquarium fish.

## UNIT- II

2. Answer *any four* of the following questions: (5×4=20)

- a) Write the common characteristics of Gold fish. How you can determine the gender of a Gold fish?

(3+2=5)

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Date \_\_\_\_\_

- b)** What is formulated fish feed? Write the composition of one formulated fish feed. Write the advantages of using formulated fish feed in aquarium. (1+2+2=5)
- c)** Name two diseases of aquarium fish. Write some steps for proper maintenance of an Aquarium. (2+3=5)
- d)** Name a mosquito larvicidal fish. Give a brief note on the biocontrol potentiality of ornamental fishes against larval mosquitoes. (1+4=5)
- e)** Differentiate between open system and closed system of fish transport? Mention the steps associated with fish transport. (2+3=5)
- f)** Why ornamental fishes are known as living jewels? Give scientific name of two exotic and two endemic species of aquarium fishes. (1+2+2=5)

### UNIT -III

**3. Answer any one of the following questions: (10×1=10)**

- a)** Describe the distinguishing characters of the following aquarium fishes: (2½×4=10)
- i. Guppy
  - ii. Molly
  - iii. Angel fish
  - iv. Anemone fish
- b)** Briefly describe the essential equipments required to set up an aquarium. Mention the vital water parameters and their optimum range that are used in an aquarium. Write the basic requirements to start ornamental fish farming business. (5+3+2=10)

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Signature of Moderators \_\_\_\_\_

Date \_\_\_\_\_