2022

ZOOLOGY — HONOURS

Paper: SEC-B-1

(Aquarium Fish Keeping)

Full Marks: 80

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Answer any eight questions.

- (a) Distinguish between egg layers and live bearers.
- (b) Write the scientific name of Gold fish. Enumerate its morphological characters and social behaviour.
- (c) How will you distinguish between male and female Guppy fish?

2+(1+21/2+21/2)+2

- (a) Why is fish meal an important component of artificial feed?
- (b) Mention three advantages of using Artemia as feed.
- (c) Why are additives added to fish feed? Name one such additive.

4+3+(2+1)

- 3. (a) Mention the employment avenues related to the ornamental fish industry.
 - (b) How does this industry help in rural development and women empowerment?
 - (c) Write the scientific name of Angel fish.

4+(21/2+21/2)+1

Write short notes on any two of the following:

5×2

- (a) Chemical methods for water and fish treatment during transport
- (b) Potential exotic larvivorous fishes
- (c) Phytoplanktons used for live fish feed in aquarium.

Write an account on morphological characteristics mentioning sexual dimorphism and breeding strategies 5×2

- (a) Blue morph fish
- (b) Angel fish.
- (a) Mention the scientific names of any three endemic species of aquarium fishes.
- (b) How can you select a breeding pair before successful production of ornamental fish?
- (c) What are the criteria for selection of ornamental fish?

3+3+4

Please Turn Over

Write about the role played by copper sulphate and potassium per-manganate in aquarium

Answer any five of the following questions:

maintenance.

What is the scientific name of Butterfly fish?

Comment on sexual dimorphism of Sword tail fish.

 2×5

- Comment on territorial behaviour of aquarium fish.
- _ Name two marine based exotic fishes.
 - (f) What do you mean by Aquascaping?
- Name two rotifers used as live fish food for aquarium fishes.
 - (h) Write the importance of Shrimp meal.