



**WEST BENGAL STATE UNIVERSITY**

B.Sc. Honours 5th Semester Examination, 2021-22

**IFFADSE03T-INDUSTRIAL FISH AND FISHERIES (DSE1/2)**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate marks of question.  
Candidates should answer in their own words and adhere to the word limit as practicable.*

1. Answer any **seven** questions from the following: 2×7 = 14
- (a) Distinguish between neon tetra and cardinal tetra.
  - (b) Why air diffuser should not be used in the breeding tank of Siamese fighter fish?
  - (c) What is the use of putting sticky tapes on the outer sides of the glass aquarium during fabrication?
  - (d) Mention the disadvantages of under gravel filter.
  - (e) What is the reason of placing thermostat and thermometer in two opposite walls of a glass aquarium?
  - (f) Specify the reason for which a shallow pot should be placed on the aquarium substrate during filling up the aquarium with water.
  - (g) What is the way out to reduce the air pressure of an internal power filter?
  - (h) Mention the function of protein skimmer.
  - (i) Specify the role of connectors in air supply from an aerator.
2. Write short notes on any **two** of the following: 3×2 = 6
- (a) Fin and tail rot
  - (b) Canister filter
  - (c) Argulosis
  - (d) Gas bubble disease.
3. Answer any **four** questions from the following: 5×4 = 20
- (a) Describe the culture methodology of angel fish. What do you mean by “live-bearing” fish? 4+1
  - (b) Describe the parameters to be considered for nutritional supplementation in ornamental fish brood stock. Specify the factors to be considered before setting up of an ornamental fish production unit. 2+3
  - (c) Specify the reasons of culturing live feed in the ornamental fish farm. Describe the ways of implementation of biosecurity protocol in an ornamental fish farm. 2+3

- (d) Mention the sexual dimorphic characters of gold fish. What is the role of “breeding box” in breeding of guppy? 3+2
- (e) How to identify a healthy aquarium plant? Describe the method by which aquarium plants can be sexually propagated. Specify the names of two plants which can be propagated using offsets. 2+2+1
- (f) Specify the factors to be considered before choosing a site for placement of an aquarium. What are the merits of keeping internal decors in an aquarium? 3+2

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

—x—