



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 4th Semester Examination, 2021

IFFACOR10T- INDUSTRIAL FISH AND FISHERIES (CC10)

ORNAMENTAL FISH CULTURE

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

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) What is the importance of using sticky tape during construction of aquarium?
 - (b) Why thermostat and thermometer should be placed on the opposite walls inside an aquarium?
 - (c) Specify the function of faucets.
 - (d) State the importance of pre-packing acclimatization.
 - (e) What is the importance of bog wood in aquarium?
 - (f) What is purging and why should this be practiced before packing of ornamental fishes?
 - (g) Name the different developmental stages of fish larva right from fertilization to hatching.
 - (h) Why offspring survival is much better in live bearing fish than the egg laying ones?
 - (i) Merits and demerits of under gravel filter.

2. Write short notes on any **two** of the following: 3×2 = 6
 - (a) Protozoan disease of ornamental fish
 - (b) Colour enhancement in ornamental fish
 - (c) Prophylactic measures in Aquarium
 - (d) Removal of hardness of Aquarium water.

3. Answer any **four** questions from the following: 5×4 = 20
 - (a) Classify aquarium based on species composition and purpose of utilization. What is biotope and specify its importance. 3+2
 - (b) Specify the criteria to be considered before selecting any live food for ornamental fish larvae. Describe the culture methodology of brine shrimp. 2+3

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| (c) Write an account of indigenous ornamental fishes of West Bengal and their export potentiality. | 5 |
| (d) Define HUFA and specify the significance of HUFA in larval diet. Nutritional requirement of aquarium fish is of immense importance compared to naturally occurring fish— Justify. | 3+2 |
| (e) Describe the methods to be followed for collection of live marine ornamental fishes. Describe the larval rearing methodology of damselfish. | 3+2 |
| (f) Differentiate between egg depositors and egg scatterers with examples. Describe paternal care in ornamental fishes with examples. | 2+3 |

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.*

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