



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 4th Semester Examination, 2022

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) Mention the function of “T” connector.
 - (b) Why with the time air pressure from an aerator used to get reduced?
 - (c) Provide names of two indispensable amino acids.
 - (d) Specify the significance of the use of spirit during the making of all glass aquarium.
 - (e) How water pressure output from an internal power filter can be reduced?
 - (f) Name two Indigenous ornamental fishes of India.
 - (g) Why large stones should not be used in a cichlid tank?
 - (h) State the significance of grading before packing of ornamental fishes for shipment.
 - (i) Provide names of two ornamental fishes showing mouth-brooding parental care.

2. Write short notes on any **two** from the following: 3×2 = 6
 - (a) Pre-packing decisions
 - (b) Temperature acclimatization
 - (c) Tail and fin rot disease
 - (d) Nutritional importance of vitamins in ornamental fish.

3. Answer any **four** questions from the following: 5×4 = 20
 - (a) Write an account on sexual dimorphism in sword tail and fighter fish. Comment on reproductive biology of angel fish. 2+3
 - (b) Specify the merits of power filter. Write an account of working principle of trickle filter with suitable diagram. 2+3

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| (c) Write an account on larval and juvenile rearing in clownfish. Define protoandry and protogyny with one example for each. | 3+2 |
| (d) Specify the advantages of aquarium decors. Describe the quarantine measures to be followed after purchasing new fish for your tank. | 2+3 |
| (e) Provide names of any two anesthetics. Describe any two natural asexual propagation methods of aquarium plants. | 1+4 |
| (f) Write an account on treatment measures for gyrodactylosis and dactylogyrosis. Comment on prophylactic measures for gas bubble disease. | 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.*

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