



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 5th Semester Examination, 2020, held in 2021

IFFADSE03T-INDUSTRIAL FISH AND FISHERIES (DSE1/2)

ORNAMENTAL FISH PRODUCTION AND MANAGEMENT

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) What is the importance of feeding vitamin C to ornamental fishes before harvesting for packing?
 - (b) What is the significance of keeping floor covering in an aquarium?
 - (c) Specify the significance of using spawning mop in the breeding tank of gold fish.
 - (d) Comment on pre-packaging exercise.
 - (e) Define new tank syndrome.
 - (f) Described the factors to be considered while selecting plants for an aquarium.
 - (g) Specify the reasons for which aquarium should not be placed in direct sunlight.
 - (h) Write the scientific name of two air breathing ornamental fish.
 - (i) Mention the disadvantage of using vacation blocks for feeding ornamental fishes.
2. Write short notes on any **two** of the following: 3×2 = 6
- (a) Dropsy
 - (b) Branchiomycosis
 - (c) Internal power filter
 - (d) Importance of Quarantine in Ornamental fishery.
3. Answer any **four** questions from the following: 5×4 = 20
- (a) Describe the symptoms and treatment measures for the following diseases of ornamental fish: Ichthyophthiriasis and Costiasis. Provide the names of any two trematode agents which cause diseases in ornamental fishes. 4+1
 - (b) Describe the different types of artificial propagation methods of aquarium plants. Provide the names of two aquarium plants which can propagate through runner. 4+1
 - (c) State the culture methodology of dwarf gourami. Comment on the benefits of live feed over formulated feed for ornamental fishes. 3+2

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| (d) Describe the steps to be followed for installation of plants during setting up of an aquarium. What is the significance of using internal decors in aquarium? | 3+2 |
| (e) Describe the working principle of Biological filter in Aquarium. Comment on its merit and demerit. | 3+2 |
| (f) Write an account of Brood stock management of exotic ornamental fish. | 5 |

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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