



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 2nd Semester Examination, 2022

IFFACOR03T- INDUSTRIAL FISH AND FISHERIES (CC3)
FRESH WATER AQUACULTURE AND AQUATIC ECOLOGY

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) Specify the advantages of Liming in pisciculture.
 - (b) Describe the seed transportation method for *Macrobrachium rosenbergii*.
 - (c) Classify plankton on the basis of size.
 - (d) Describe the disadvantage of cage culture.
 - (e) Mention the major features of a polar lake.
 - (f) Define weed fish with examples.
 - (g) Write scientific names of two fresh water mussels involved in pearl culture.
 - (h) Specify the principle of monoculture.
 - (i) Add a note on capture fishery of Godavari river.

2. Write short notes on any **two** of the following: 3×2 = 6
 - (a) Aquatic insects and their eradication
 - (b) Advantages and disadvantages of sewage fed fish culture.
 - (c) Fall turn over in a lake.
 - (d) Adaptation of Lotic animals.

3. Answer any **four** questions from the following: 5×4 = 20
 - (a) Classify pond on the basis of construction component and utilization. Define nekton and neuston. 3+2
 - (b) Mention the points to be considered for pre and post stocking management. Differentiate between manure and fertilizer. 4+1
 - (c) Write short notes on different biological communities of a lake. 5
 - (d) Briefly describe the different zones found in pond. Differentiate grazing and detritus food chain. 4+1

- (e) Describe the surgical procedure in mussel for pearl culture. Add a note on post-operative care. 4+1
- (f) Write a note on rhithron zone of river. Mention the characteristics of lotic habitat. 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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