



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2021

IFFADSE05T-INDUSTRIAL FISH AND FISHERIES (DSE3/4)

CULTURE OF LIVE FISH FOOD ORGANISMS

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) Write the scientific name of one important cultivable species each of zooplankton and phytoplankton.
 - (b) What are the advantages of *Spirulina* in aquaculture?
 - (c) Comment on the merits and demerits of supplementary feed.
 - (d) What is diatom? Mention its demerit in aquaculture pond.
 - (e) What is infusoria? Give two examples.
 - (f) What do you mean by cladocerans? Give example.
 - (g) Write the developmental stages of *Artemia*.
 - (h) Distinguish between phytoplankton and zooplankton.
 - (i) What is semi-continuous and continuous live feed culture?
2. Answer any **two** questions from the following: 3×2 = 6
 - (a) Cyanotoxin.
 - (b) Major problems in live feed culture.
 - (c) Aquacultural importance of Chironomids.
 - (d) Evaluation of live food organism.
3. Answer any **four** questions from the following: 5×4 = 20
 - (a) Write the methods of isolation and identification of benthic live food. 5
 - (b) What is blue green algae? Write the culture method of blue green algae. 2+3
 - (c) Define proximate composition. Write the proximate composition of *Tubifex*. 2+3
 - (d) State the biological characteristics of rotifers. Describe briefly the culture method of *Brachionus* sp. 2+3
 - (e) Write the prospects of live feed culture and their importance in aquaculture. 5
 - (f) What do you mean by decapsulation in *Artemia*? Mention decapsulation process in indoor culture method. 1+4

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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