## 2023

## BFSC 4th Semester Examination Shellfish Hatchery Management

PAPER — BFSC-404

Full Marks: 50

Time: 2 hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

- 1. Answer any ten from the following questions:  $2 \times 10 = 20$ 
  - (a) What are the breeding seasons of P. monodon in West Bengal?
  - What are the key factors to consider in the site selection of a shellfish hatchery?
  - (c) Write the scientific names of two edible oysters found in West Bengal.

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(Turn Over)





(d)) State two environmental factors that can impact shellfish hatchery operations.

What is spat settlement?

State two potential benefits of effective shellfish hatchery management.

(9) What is the function of x-organ sinus gland complex of eyestalk of crustaceans?

(MF) hormone? What is the function of Methyl Farnesoate

in shrimp hatchery? What are the common disinfectants used

Write two names of pearl oyster

How does temperature influence the growth and development of shellfish larvae in a hatchery setting?

What are the common larval feeds used in P. monodon hatcheries?

associated with shellfish hatcheries Write the names of two common pathogen

(n) Name the different larval stages of penaeus monodon.

indicus get matured? When do the Penaeus monodon and Penaeus

(Continued)

Answer any six from the following questions 6×5=30

Write a short note on maturation stages of Penaeus monodon.



technique. Discuss briefly the eyestalk ablation



management practice of Penaeus monodon Illustrate briefly Write the status production in India. the of shellfish brood stock seed



required for shrimp hatchery? What is optimum water quality parameters

Write a note on the food of larval shellfish



natural and hatchery produced seeds? What are the differences of quality between

Write a note on seed resources of Scylla serrata.



Write an account of breeding and hatchery management of Macrobrachium rosenbergii

Give an account of life cycle of any lobster



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