## 2023

## **BFSC 4th Semester Examination**

## Finfish Hatchery Management

PAPER — BFSC-403

Full Marks: 50

Time: 2 hours

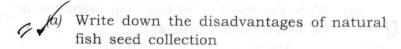


The figures in the right-hand margin indicate marks.

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:  $2 \times 10 = 20$ 



- (b) What do you mean by ecohatchery?
  - (c) What do you mean by monoculture?

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(Turn Over)



(d) Write the name of two inland fishing gears used for fish seed collection in West Bengal. Shooting nut, Driff nut

10 What are the benefits of bundh breeding?

1 Write down the importance of induced breeding in fish.

(9) carps? What do you mean by multiple breeding of

How do you preserve pituitary gland after extraction?

Distinguish between fry and fingerling

Write a note on hapa hatchery system for

Write down the names of two anaesthetic drugs used in fish seed +--drugs used in fish seed transportation. TM1-222

(1) Write the names of four natural food of carp larvae

(m) (7) Write the features of selecting broodstocks Write notes on record-keeping and data for fish breeding programs

management practices in a fish hatchery.

8

Mention the causes of egg mortality in a fish hatchery

(Continued)

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

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encountered in maintaining water quality What are managed? in fish hatcheries, and how can these be the common challenges 21/2+21/2=5

Write the induced breeding of sea bass. 5

C) Briefly explain broodstock management of fish pond.

(d) Write down the major advantages and used in aquaculture. disadvantages of glass jar hatchery system

stocking locations fish fries from a hatchery to grow-out Write two methods of the transportation of

Write notes on fish seed certification and quarantine measures

(9) State the challenges related to genetic hatcheries management and inbreeding in fish

Explain the factors to consider when

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selecting suitable collection sites for fish seed in rivers.

- (i) Write notes on environmental factors affecting spawning.
  - (j) What are the features of catfish breeding technique?



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