CENTRAL BHARAT SEVAK SAMAJ

NATIONAL DEVELOPMENT AGENCY, ESTABLISHED IN 1952 BY PLANNING COMMISSION, GOVT. OF INDIA

CENTRAL BOARD OF EXAMINATIONS

BSS NATIONAL VOCATIONAL EDUCATION MISSION

FE013-ORNAMENTAL FISH CULTIVATION AND MANAGEMENT

ONE YEAR EXAMINATION NOVEMBER-2025

FE013-02 FISHERIES SCIENCE

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) _____ is employed for rearing of earthworms

2) Cod liver oil is rich in _____

3) Crustacean fishery is connected with exploitation of _____

4) Cultivation of fishes in artificially prepared ponds or water bodies is called _____

5) Drying of fishes by lowering temperature is _____

6) Earthworms which are seen on the surface are called _____

7) Fish flour is rich in _____

8) Fish introduced in India by foreigners is _____

9) Fishes reared in culture fishery in India are _____

10) Hypophysation is done in major carps _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) What are the uses of Gill rackers?
2) What type of scales are found in elasmobranch Fishes?
3) What is Osmoregulation?
4) Give the scientific name of Tiger prawn
5) Differentiate between Ouiparus and Viviparus?
6) Define the eutrophication
7) Expand C.O.D.
8) Which type of soils are suitable for fish culture
9) Name any two natural fish food organisms
10) What is an hatchery

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Give an account on the Transportation of fish seed.
2) Write an essay on parasitic diseases of fish.
3) Write brief essay on integrated fish farming
4) Give an account on the significance of plankton in fish culture
5) Discuss about chinese hatchery.
6) What are the capture fishery resources in India
7) Describe the fisheries of river Ganga.
8) Describe the management of Reservoir fisheries

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Describe the by-products of fish
2) What are the government policies and programmes on fisheries sector
3) Describe the different types of manures used in aquaculture
4) Describe the criteria for the selection of the fish for aquaculture.
5) Explain the natural fish food organisms of scampi pond

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FE013-ORNAMENTAL FISH CULTIVATION AND MANAGEMENT

ONE YEAR EXAMINATION NOVEMBER-2025

FE013-03 ORNAMENTAL FISH CULTIVATION & MANAGEMENT

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Sedating the ornamental fishes during transportation is to _____

2) _____ is a Platyhelminth causing fish disease

3) _____ is a fish Louse.

4) _____ is caused by Ichthyophthirius miltifilis

5) Aquarium accessories are: _____

6) Sexual dimorphism is not found in _____

7) Example of rooted aquarium plant _____

8) Selection of aquarium plants is based on _____

9) Water vascular system is a characteristic feature of _____

10) Sea anemone has _____ symmetry.

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) What are the advantages of ozonisation?
2) What are the symptoms of fish disease?
3) What are the advantages of natural plants?
4) What are the recovery programmes in biodiversity conservation?
5) What are the criteria in selecting fishes for aquaria?
6) Why do we produce fish frys by artificial methods?
7) What is ovaprim?
8) In an aquarium what is the function of a biological filter?
9) What is the role of suckers in an aquarium?
10) What is new tank syndrome?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) What are the advantages of induced breeding?
2) Explain the role of aquarium accessories
3) What are the factors leading to the decline of the native species?
4) Water quality management is of utmost important in brood stock tanks, why?
5) What is gene banking?
6) Write the conservational aspects of indigenous ornamental fishes
7) Explain the packing and transportation methods used in ornamental fishery
8) What are the common diseases of ornamental aquarium fishes? Write their causative agents and the common prophylactic measures.

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain the construction and setting up of aquaria.
2) Propagation and maintenance of the different types of aquarium plants
3) Explain the different mechanisms involved in Ornamental fish production and Management.
4) Write an account on fishing crafts.
5) Write an essay on integrated fish farming