QP Code: UV25C007

Reg.No : .....

Name : .....

ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

III SEMESTER (CBCSS-VUG) DEGREE EXAMINATIONS, OCTOBER 2025

B. Voc Applied Biotechnology

SDC3APB11 : FISHERIES BIOTECHNOLOGY

2024 Admission Onwards

Time: 2 Hours **Maximum Marks: 60**

Section A

*Short answer type questions carry **2** Marks each **(Ceiling 20)***

1. Define tide-fed and pump-fed farms with examples.
2. Retrieve two common aquarium plants used in freshwater tanks.
3. List any two functions of a main feeder channel in an aquaculture farm.
4. Compare natural feeds and supplementary feeds with suitable examples.
5. Explain seepage? Give one method to control seepage in ponds.
6. Suggest the steps to stabilize water conditions in a freshwater aquarium after adding new fish.
7. Examine the process of preparing fermented fish sauce using locally available raw material.
8. Reconstruct a stepwise procedure for traditional fish sun-drying in hygienic conditions.
9. Give a step-by-step outline for producing fish sausage on a small scale.
10. Apply the advantages of retort pouch packing over conventional canning.
11. Examine the significance of binders in fish feed formulation.
12. Suggest an optimized packing and transport plan for live ornamental fish to minimize mortality.

Turn Over

Section B

*Paragraph type question carries **5** Marks each* ***(Ceiling 30)***

13.Retrieve the importance of chemical filtration systems used in aquariums.

14.Describe the main steps involved in the construction of a fish pond.

15.Describe the key design considerations for constructing raceways in aquaculture farms.

16.Illustrate a practical method for preparing solar-dried fish under hygienic conditions.

17.Examine the role of packaging in preventing rancidity in dried fish.

18.How does improper exhausting and seaming can lead to spoilage in canned fish products?

19.Evaluate the common diseases in a hatchery and their treatment measures.

Section C

Essay-type questions. 10 Marks : Answer any one.

20. Explain the different types of pumps used in aquaculture and their applications in fish farming.

21.Recall different breeding and rearing methods used for ornamental fishes with suitable examples.

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