

2023

BFSC 5th Semester Examination

(Fish By-products and Waste Utilization)

PAPER — BFSC-508

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.*

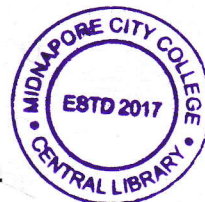
Illustrate the answers wherever necessary.

1. Answer **any ten** from the following questions :
2×10=20

- (a) Name two parameters that are crucial in assessing the quality of fish meal.
- (b) Write two important advantages of dry-wet reduction methods used for fish meal preparation.
- (c) What are the uses of fish liver oil?

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(Turn Over)



(2)

- ~~(a)~~ What is chitin? 5
- ~~(e)~~ Write the uses of chitosan. 5
- ~~(f)~~ Define Fish Protein Concentrate (FPC). 5
- ~~(g)~~ Illustrate the nutritional benefits of fish maws. 5
- ~~(h)~~ What are the characteristics of shark leather? 5
- (i) Define pearl essence. 5
- ~~(j)~~ Name two agar producing seaweeds. 5
- (k) Write the uses of algin. 5
- ~~(l)~~ Name two pharmaceutical products manufactured from fish. 5
- ~~(m)~~ How to store fish oil for longer shelf life? 5
2. Answer any six from the following questions :
5×6=30
- ~~(a)~~ Write the steps involved in fish protein concentrate preparation. 5
- ~~(b)~~ What is fish hydrolysate? How is fish hydrolysate made? 5

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(Continued)



(3)

- ~~(a)~~ Illustrate briefly the uses of fish silage. 5
- (d) What is isinglass? Write the method of its preparation. 2+3=5
- (e) How is shark leather made? Write the application of shark leather. 2+3=5
- ~~(f)~~ Write briefly the process of fish glue production. State the application of fish glue. 3+2=5
- ~~(g)~~ What is *beche-de-mer*? How is it prepared? 5
- (h) Briefly describe the methods of fish meal preparation. 5
- (i) What are the key biochemical compounds that can be extracted from fish by-products? 5
- ~~(j)~~ How is the deodourization of fish meat achieved and what role does it play in the final product? 2+3=5

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