

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2022

IFFADSE04T-INDUSTRIAL FISH AND FISHERIES (DSE3/4)

FISH BYPRODUCTS AND WASTE UTILIZATION

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

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| 1. | | Answer any seven questions from the following: | 2×7 = 14 |
| | (a) | Mention the use of fish protein concentrate. | |
| | (b) | Mention the uses of pearl essence. | |
| | (c) | Write the important uses of chitin. | |
| | (d) | What is the difference between FPC and fish meal? | |
| | (e) | Mention two important uses of isinglass. | |
| | (f) | What is wet reduction method? | |
| | (g) | What are the merits of fish protein hydrolysate? | |
| | (h) | What do you mean by by-product? | |
| | (i) | Mention the sources of fish oil. | |
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| 2. | | Write short notes on any <i>two</i> : | 3×2 = 6 |
| | (a) | Fish oil and fish meal | |
| | (b) | Fish maw | |
| | (c) | Shrimp waste | |
| | (d) | Deodorized fish meat. | |
| | | | |
| 3. | | Answer any <i>four</i> questions from the following: | 5×4 = 20 |
| | (a) | Briefly describe the use of shark by-products. What are the advantages and disadvantages of shark leather product? | 2+3 |
| | (b) | What is fish glue? Briefly describe the process of preparation of fish glue. | 2+3 |
| | (c) | What is the economic importance of fish meal? Mention the pros and cons of wet rendering technique of fish meal preparation. | 2+3 |

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(d) What is fish gelatin? Mention the application of fish gelatin in our daily life. 2+3

2+1+2

- (e) How does fish hydrolysate differ from fish silage? What is the disadvantage of acid hydrolysis to prepare fish hydrolysate? Mention the application of fish hydrolysate.
- (f) What is by-product of fish industry? Briefly describe the main by-products of 1+4 fish industry.

N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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