3.



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2021

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.

		Canadadies snould answer in their own words and danere to the word timit as practicable.	
1.		Answer any seven questions from the following:	2×7 = 14
	(a)	What is the significance of antioxidant treatment before packing and storage of fishmeal?	
	(b)	Why utilization of formic acid is beneficial over mineral acids for production of fish silage?	
	(c)	What is the importance of hydrogenation in the final stage of fish body oil production?	
	(d)	Specify the reason of using caustic soda during the preparation of fish glue from fish skin.	
	(e)	Define "winterization".	
	(f)	Mention the uses of fish glue.	
	(g)	What is fish maw?	
	(h)	State the uses of fish silage.	
	(i)	What is shagreen?	
2.		Write short notes on any <i>two</i> :	$3\times2=6$
	(a)	Whole fishmeal	
	(b)	Isinglass	
	(c)	Fish gelatin	
	(d)	Pearl essence.	

6121 Turn Over

(a) What are the advantages and disadvantages of dry rendering technique for fish

(b) Describe the common deteriorative changes observed in fish body oil during

storage. Classify fish liver on the basis of oil and vitamin content with examples.

Answer any *four* questions from the following:

meal production? Mention the uses of fishmeal.

 $5 \times 4 = 20$

3+2

3+2

CBCS/B.Sc./Hons./6th Sem./IFFADSE04T/2021

(c)	in the production of fish silage.	2+3
(d)	Describe the enzyme-alkali digestion technique used for extraction of fish liver oil. Comment on the uses of fish body oil.	3+2
(e)	State the uses of shark fin-rays. Describe the Viobin process used for the production of fish protein concentrate.	2+3
(f)	Describe the production method of partially hydrolyzed deodorized fish meat. What are the advantages of partially hydrolyzed deodorized fish products?	3+2

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.

_____Y____

6121 2