Sl. No. of Ques. Paper: 2054

Unique Paper Code : 32201305

Name of Paper : Technology of Dairy and Sea Food

Name of Course : B.Sc. (Hons

: B.Sc. (Hons.) Food Technology (CBCS)

Semester

: III

Duration:

: 3 hours

Maximum Marks

: 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

GC-3

Attempt five questions in all. Question No. 1 is compulsory.

All questions carry equal marks.

1. State whether True or False:

- (a) India is the largest exporter of fish in the world.
- (b) The color of whey is due to carotene pigment.
- (c) Surimi with cryoprotectants remains stable during freezing.
- (d) Surface tension of homogenised milk is lower than unhomogenised milk.
- (e) Shrimps are larger than prawns.

 $1 \times 5 = 5$

Answer the following:

- (f) Define Butter.
- (g) Name any four important smoke components.
- (h) What is the importance of Refractive Index of milk?
- (i) What is pindang?

(c)

(j) How is casein stabilized in milk?

 $2 \times 5 = 10$

- 2. (a) Explain the principle and working of any two processing equipments used in milk plants, with the help of well labelled diagrams.
 - (b) Discuss the Surimi process and compare surimi with fish mince products. 4+3
- 3. (a) How can MAP be beneficial for extending the shelf life of fish?
 - (b) Give a brief description of various enzymes present in milk.

Describe the process of flavored milk production.

5

5

5

7.

(a)

(b)

4.	Explain the following with the help of a flowchart:	
	(a)	Fish Sauce
	(b)	Fish Protein Concentrates
	(c)	Milk Powder. $5\times 3=15$
5.	(a)	What are the types of proteins present in milk? Discuss their fractions and differences?
	(b)	Write about the changes occurring in the quality of fish/seafood during frozen storage.
6.	(a)	Give a detailed note on milk fat.
	(b)	Describe the pre-process operation in canning of fish. Draw a flowchart for canning of Tuna. 4+4

Write about α and β lactose and the importance of lactose in dairy industry.

Explain the modern smoking kiln.