Seat No.: _____ Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII(NEW) EXAMINATION - SUMMER 2019

Subject Code:2171403 Date:16/05/2019

Subject Name: Milk & Milk Products Technology

Time:02:30 PM TO 05:00 PM **Total Marks: 70**

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	What are the legal standards for ice cream?	3
	(b)	Discuss the following steps in the preparation of cheddar cheese:	4
		i) Addition of starter culture ii) Renneting	7
	(c)	Shortly explain the technology of butter preparation.	7
Q.2	(a)	Write the advantages of preparation of:	
	()	i)Toned milk ii) Flavoured milk iii) Standardized milk	3
	(b)	How the vanilla and chocolate flavour is extracted? Explain.	4
	(c)	Define Khoa. Discuss the composition and types of khoa.	7
	(-)	OR	•
	(c)	Explain the flow diagram of preparation of paneer and chhana.	7
Q.3	(a)	Differentiate between normal milk and abnormal milk.	3
Q.O	(b)	Write the role of stabilizers and emulsifiers used in ice cream	
	(~)	preparation.	4
	(c)	What are the objectives of preparation of homogenized milk? Explain	-
		the process flow chart of its preparation.	7
		OR	
Q.3	(a)	Comment on 'Role of NDDB in dairy development in India'	3
	(b)	State the role of constituents present in ice cream.	4
	(c)	Explain the flow diagram with technical details for the preparation of	_
		i) Recombined Milk ii) Sterilized milk	7
Q.4	(a)	Write a brief note on 'classification of cheese'	3
	(b)	Write the legal requirements for butter and discuss the different types of butter.	4
	(c)	Briefly describe the important physico-chemical properties of milk.	7
	(0)	OR	,
Q.4	(a)		
۳۰,۲	(a)	Give the flow diagram of preparation of cheddar cheese with technical details.	3





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	(b)	Define Churning of cream. Discuss the factors affecting churnability of cream.	4
	(c)	Highlight the nutritional significance of milk and state the characteristics of the major constituents present in milk.	7
Q.5	(a)	Write short notes on 'Processed cheese'	3
	(b)	Define Condensed milk and briefly explain the process of its production.	4
	(c)	What are the objectives of neutralization of cream during butter preparation? Discuss the types of neutralizers to be added and correct procedure for neutralization.	7
		OR	
Q.5	(a)	Write short notes on 'Composition and nutritive value of cheese'	3
	(b)	Highlight the important characteristics of 'Spray drying' as a milk drying system.	4
	(c)	Explain the importance of 'Platform Tests' in dairy industry.	7

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