

MFT-007

Total No. of Questions: 7] [Total No. of Printed Pages: 3

POST GRADUATE DIPLOMA IN FOOD SCIENCE AND TECHNOLOGY (PGDFT)

Term-End Examination

June, 2014 MFT-007 : DIARY TECHNOLOGY				
Time : 3 Hours] [Maximum Mark				
Note: -Attempt Five questions in marks.	all. All questions carry equal			
(a) Explain the important feat Dairy Cooperative structure	·			
(b) Why chilling of milk is nece methods used for chilling	_			
(c) Explain the salient charact	teristics of milk proteins. 5			
2. (a) Enumerate important method Which of these is most of the characteristics and advanta	widely used ? Explain its			
(b) What is homogenization? and disadvantages of homogenization the design and operation help of diagram.	genization process ? Explain			
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	(c)	Describe the working of vapour compression refrigeration system with the help of a diagram.	4
3.	(a)	Define UHT milk. Explain the principle and processes involved in manufacture of UHT milk.	7
	(b)	Explain HTST pasteurization with the help of a diagram.	7
4.	(a)	Define the soft serve Ice cream (softy) and give its average composition. Describe the steps involved with purpose for preparation of soft serve ice cream.	7
	(b)	Define Evaporated milk and give its average composition. Describe important storage defects and give the causes and remedial measures for these defects.	7
5.	(a)	What is purpose of drying of milk? Give the important features of spray drying process with operational parameters.	7
	(b)	Explain the importance of the following properties of dried milks: (i) Particle size distribution (ii) Bulk density (iii) Insolubility index	7

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6.	(a)	What is chemical composition of human milk? Explain	
		the virtues of human milk.	4
	(b)	Give the principle and process for manufacture of acid casein.	5
	(c)	Give the BIS requirements of table butter and explain the principle and process of butter making with proper processing parameters.	5
7.	(a)	Explain the principle of manufacture of Ghee. Give the average composition of Ghee from buffalo milk. Explain the important for constants of Ghee which could be the basis for determining the quality of Ghee.	7
	(b)	Give the principle and process of making cheddar cheese. Describe the various body and texture defects observed in cheese. Give their causes and remedial measures.	
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