POST GRADUATE DIPLOMA IN FOOD SCIENCE AND TECHNOLOGY (PGDFT)

Term-End Examination December, 2013

MFT-007: DAIRY TECHNOLOGY

Time: 3 hours		ours Maximum Marks : 70	
Not	e:	Attempt any five questions. All questions carry equal marks.	
1.	(a)	Describe the salient features and major achievements of the Operation Flood (OF)	
	(b)	programme. Give the composition of cow and Buffalo 5 milk. Explain factors affecting the composition of milk.	
	(c)	Explain the principle and process of homogenization with the help of diagram.	
2.	(a)	Explain important milk pre-processing 4 operations.	
	(b)	Define pasteurization and its objectives. 10 Describe HTST pasteurization process and its principle with the help of a diagram.	
3.	(a)	Give the definition and average composition of Ice cream. Give the method for preparation of Ice cream with the help of	
	(b)	flow diagram and processing parameters. Define "condensed milk (sweetned)". Give its composition and method of manufacture with appropriate processing parameters.	

4. (a) What are the main criteria for classification 4 of dried milks? Give the basic operating parameters for roller drying process. (b) What is "Instantization of Milk Powder"? 4 Explain the basic features of instantization process. 6 (c) What is malted milk food and quality standards as per BIS - requirements? Describe the steps involved in production of malted milk powder. 5. Describe the steps with purpose involved in (a) 5 manufacture of lactose powder. What is principle of Cream Separation? (b) 5 Define skimming efficiency and explain the factors affecting the skimming efficiency. Describe the steps and their purpose (c) 4 involved in manufacture of table butter. 6. (a) Define Ghee and give average composition 6 of Ghee. Explain the principle for manufacture of Ghee. Describe the "Pre-stratification" method of making Ghee. 8 (b) Describe the principle and process of manufacture of cheddar cheese with proper processing parameters. 7. (a) Explain the important skills and traits of an 4 entreprenur. Describe the method of manufacture of 5 (b) Mozzarella Cheese by direct acidification method. (c) Give the average composition of Paneer. 5 Explain the important steps with purpose

involved in manufacture of paneer.