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POST GRADUATE DIPLOMA IN FOOD SCIENCE AND TECHNOLOGY (PGDFT)

Term-End Examination

June, 2016

MFT-007 : DAIRY TECHNOLOGY

Time : 3 hours

00502

Maximum Marks : 70

- Note: (i) Attempt any five questions. (ii) All questions carry equal marks.
- 1. (a) Explain the following :
 - (i) Present status of Dairy Industry in 3 India.
 - (ii) Role of cooperatives in growth of **3** Dairy Industry.
 - (iii) Important interventions to augment 3 the growth of the Dairy Sector.
 - (b) What is the average composition of cow and buffalo milk? Describe the activities carried out at Dairy Dock.
- (a) What is the importance of "chilling of 7 milk"? Describe different methods used for chilling of milk.

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- (b) What is a steam boiler ? Describe the 7 important components of a steam boiler.Write the disadvantages of using hard water in the boiler.
- 3. Explain the following (any four) : 3.5x4=14
 - (a) Bactofugation
 - (b) Standardization of milk
 - (c) Merits and demerits of Homogenization of milk
 - (d) Principle and operation of HTST Pasteurizer
 - (e) Types of UHT plants and important features
- 4. (a) What are the causes of following defects in 4 ice-cream ?
 - (i) rancid flavour
 - (ii) crumbly body
 - (iii) sandiness and
 - (iv) foamy meltdown
 - (b) How soft ice-cream differs from regular 3 ice-cream? Explain in detail.
 - (c) Explain the purpose of following processing operations.
 - (i) Seeding in preparation of 3.5 concentrated milk.
 - (ii) Pilot sterilization test in preparation 3.5 of Evaporated milk.

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5. Explain the following (any four) :

3.5x4=14

- (a) Atomization
- (b) Roller drying
- (c) Bulk density of dried milk products
- (d) Reconstitution properties of milk powders
- (e) Dairy whitener
- 6. Describe the principle and procedure for 14 manufacture of following dairy products.
 - (a) Table Butter
 - (b) Cheddar Cheese
- 7. (a) Describe various inputs required for a 5 successful business plan.
 - (b) Explain important sources of short term 5 finance for running an enterprise.
 - (c) List important Khoa and Chhana based **4** sweets.