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MFT-003

## PG DIPLOMA IN FOOD SCIENCE AND TECHNOLOGY (PGDFT)

## **Term-End Examination**

June, 2011

## MFT-003 : (FOOD PROCESSING AND ENGINEERING)

Time : 2 hours		Maximum Marks : 70
Note	: Attempt <b>any five</b> questions. <b>equal</b> marks.	All the questions carry
<b>1.</b> Discuss the importance of thermal properties of		nal properties of 14

- Discuss the importance of thermal properties of 14 foods and also describe different modes of heat transfer.
- Explain the importance of mass and energy 14 balance calculations in food processing operations. Also explain the concept of Reynolds number and its significance in food processing.
- Why different types of equipments are required 14 for handling and transportation of different types of raw food materials ? Discuss the equipments used in handling and transportation of foods in food industries.
- Discuss factors affecting efficiency of expression 14 and methods of expressing the liquid from solidliquid food system.

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- Explain conceptual difference between sorting = 14 and grading. Very food materials are subjected to sorting and grading ? Write a note on grading factor.
- What is the importance of freezing rate on the <u>14</u> quality of frozen products ? Discuss direct and indirect contact system of freezing.
- 7. Why is food dehydrated ? What is the basic **14** differences between conventional drying and freeze drying ? Why drying rate remains constant during constant rate period while it falls drastically in the falling rate period ?

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