MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT) 0246

Term-End Examination

June, 2013

MFN-008 : PRINCIPLES OF FOOD SCIENCE

Time : 21/2 hours

Maximum Marks : 75

Note : Attempt any five questions. All questions equal marks.

- Define the following terms with examples 1. (any 5) : 5x3 = 15
 - (a) Autoxidation
 - (b) Functional Foods
 - (c) Protein Isolates
 - (d) Sensory Evaluation
 - (e) Irradiation
 - (f) Hydrocolloids
 - (g) Texture
- 2. What do you know about different types of food 15 fermentation ? Enlist some fermented foods consumed in India.

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3.	(a)	Explain the barrier concept in the context $7\frac{1}{2}$ of preservation.
	(b)	How can the undesirable changes occurring $7\frac{1}{2}$ ir ₁ fried foods be minimized ?
4.	(a)	Briefly explain any one functional property 7 of proteins.
	(b)	What is atmospheric dehydration ? Enlist 8 the different dryers used in the food industry.
5.	(a)	What is pasteurization ? Explain the 2+6 different methods of pasteurization ?
	(b)	Describe the principles of food preservation. 7
6.	(a) (b)	 Enumerate the functions of colour is foods. 5 Describe the alterations occurring in the 5+5 following foods during processing : (i) Fruits and Vegetables (ii) Meat and meat products
7.		rentiate between any 3 of the following with ble examples. 5+5+5 Colloids and Crystalloids Foams and Emulsions Monomeric and Oligomeric enzymes Sterilization and Canning Maillard Reaction and Caramalization