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MASTER OF SCIENCE DIETETICS AND FOOD SCIENCE MANAGEMENT M.SC-(DFSM)

Term-End Examination

June, 2014

MFN-008 : PRINCIPLES OF FOOD SCIENCE

Time : $2\frac{1}{2}$ hours

Maximum Marks : 75

Note : Question no. 1 is compulsory. Attempt **five** questions. All questions carry equal marks.

- 1. Explain the role of the following in 2-3 sentences $1\frac{1}{2} \times 10$ each: =15
 - (a) Sugars in Baking of Cakes.
 - (b) Modified starches in food and Confectionary industry.
 - (c) Gluten in Dough formation
 - (d) Salt in food preservation
 - (e) Conditioning in process of milling of grains.
 - (f) Anti foaming agents in food industry
 - (g) Blanching in food Processing.
 - (h) Use of invert sugar as a sweetner
 - (i) Food application at 'guar gum'
 - (j) Hydration properties of proteins

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2.	(a)	What is food spoilage? List the major causes of food deterioration.	2+5=7
	(b)	What is single cell protein? Discuss some advantages of selecting micro-organism as source of protein.	2+6=8
3.	(a)	What is rancidity? List the factors influencing lipid oxidation.	7
	(b)	What are colloids? Explain briefly the properties of colloids.	2+6=8
4.	(a)	Describe the Principles of dehydration.	3
	(b)	List factors that affect drying rate and drying time. Briefly describe the drying techniques.	12
5.	(a)	Explain briefly the steps involved in product development	8
	(b)	Enumerate any two important emerging areas in food science and technology.	7
6.	(a)	Describe the post harvest handling of food.	8
	(b)	What are the preliminary steps involved during preparation of raw materials.	7
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- (a) Pasteurisation
- (b) Sols and gels
- (c) Class I and class II preservatives.
- (d) Canning of Vegetables.
- (e) Hedonic Test and paired comparison test.

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