No. of Printed Pages : 4

MASTER OF SCIENCE- (DIETETICS & FOOD SERVICE MANAGEMENT)

Term-End Examination June, 2014

MFN-003 : FOOD MICROBIOLOGY AND SAFETY

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

Maximum Marks : 75

Note: Question 1 is compulsory. Answer any four questions in all.

1. a) Define the following:

(11/2 marks each)

15

- i) Critical Control Point
- ii) Food Additive
- iii) Mycotoxins
- iv) Water activity
- v) Adulterant
- vi) Food infection

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vii) Risk Management

viii) Nutritional Labeling

- ix) Vaccum packaging
- x) Probiotic food.
- Describe the significance of following in 20 relation to Food safety.
 - i) Codex Alimentarius
 - ii) Compulsory food regulations in India.
 - iii) ISO
 - iv) JECFA
- 3. (a) Explain briefly the factors which influence 10 the growth of bacteria in foods.
 - b) Explain briefly the types of packaging 10 material currently used in food industry.

4.		tify the following statements giving suitable umples.	4x5
	a)	Natural toxicants are present in plant foods.	
	b)	Fermentation helps in extending the shelf life of a food.	
	c)	HACCP is a process which ensures food safety.	
	d)	PFA Act makes provision for the prevention of food adulteration.	
5.	a)	Elaborate on the functional role of food additives in the food Industry?	10
	b)	Briefly explain the different toxicants which have been identified in plant foods for human consumption.	10
6.	vari	ine food borne diseases Enumerate the ious food born infections, food intoxications, d borne toxic infections affecting food ety.	20

- 7. Write short notes on *any four* of the following: 4x5=20
 - a) Risk Analysis
 - b) GM Foods
 - c) MAP
 - d) WHO
 - e) Health status of food handlers

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