## MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT) PROGRAMME (DFSM)

## **Term-End Examination**

June, 2018

## MFN-003: FOOD MICROBIOLOGY AND SAFETY

Time: 2½ hours

Maximum Marks: 75

- Note: (i) Question No. 1 is compulsory.
  - (ii) Attempt five questions in all.
  - (iii) All questions carry equal marks.
- Give one example each of the following: 1.
- $15 \times 1 = 15$

- Probiotic organism (a)
- (b) Coliform
- (c) Flexible Polymer
- Gram positive bacteria (d)
- (e) Plant toxicant
- Chemical hazard in food (f)
- (g) Brewer's yeast
- Heavy metal found in food (h)
- (i) Thermophilic bacteria
- Food adulterant in turmeric (i)
- (k) Semi-perishable foods
- (1) Autolytic enzyme
- Low acid food (m)
- (n) Fermented dairy product
- (o) Food borne virus

۷.	to fo (a)	Antioxidants Temperature control Sanitation	:5 <b>=1</b> 5
3.	in fo (a) (b) (c)	Food Infection ADI	<b>3=1</b> 5
4.	(a) (b)	"Different types of hazards are associated with food." Justify the statement giving appropriate examples. What do you understand by the term Food	
	(D)	Safety? Explain giving examples.	3
5.	(a)	List various factors which contribute to street foods posing significant health problems.	_
	(b)	How can we ensure safety and quality of raw materials used in preparation of street foods?	
6.	(a)	What is HACCP? Explain the need of HACCP in the food industry.	7
	(b)	What is the role of Food Safety Management Systems in Food Industry?	8
7.	Writ (a) (b) (c) (d) (e)	Waste disposal Personal hygiene	x5=15