MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination December, 2017

MFN-003: FOOD MICROBIOLOGY AND SAFETY

- (ii) Attempt five questions in all.(iii) All questions carry equal marks.
- 1. (a) Define the following: 5x2=10
 - (i) Probiotics (ii) Sanitizer
 - (iii) Starter culture (iv) CCP
 - (v) OR potential
 - (b) Give one example for each of the following:
 - (i) Aerobic Spore Former

5x1=5

- (ii) Edible Fungi
- (iii) Neuro toxin producer
- (iv) Coliform
- (v) Mycotoxin
- 2. (a) Explain the bacterial growth curve. 7+8=15
 - (b) What are the various growth factors which influence the growth of bacteria? Explain briefly.

MFN-003

3.	(a) (b)	Define a hazard. Classify the hazards associated with food giving examples.	3 12
4.		Spores GHP's Temperature Danger Zone	3=15
5.	(a) (b)	What is Risk Analysis? Explain its significance. Explain the three components involved in Risk Analysis. Highlight their relationship among the three components.	5 10
6.	(a) (b)	What are the types of spoilage associated with canned food? How will you prevent spoilage in canned foods. State the difference between Food Infection and Food Intoxication giving appropriate examples.	10 5
7.	Writ (a) (b) (c) (d) (e)	HACCP Codex Alimentarius	5=15