## POST GRADUATE DIPLOMA IN FOOD SAFETY AND QUALITY MANAGEMENT (PGDFSQM)

## Term-End Examination June, 2011

MVPI-001: FOOD MICROBIOLOGY

Time: 2 hours Maximum Marks: 50

**Note:** Attempt any 5 questions. All questions carry equal marks.

1. Give the principle briefly.

5x2=10

- (a) Negative staining.
- (b) MBR Test.
- (c) Spiral Plate Count.
- (d) Polymerase chain reaction.
- (e) Endospore staining.
- **2.** Explain the following very briefly.

5x2=10

- (a) Food Intoxications.
- (b) Food Contamination.
- (c) Viruses.
- (d) Fermented foods.
- (e) Emerging Food Borne diseases.

MVPI-001 1 P.T.O.

(a)	Count Method of enumeration of bacteria?	
(b)	What are the various microbes associated 5 with food?	
•	lain the deteriorative effects of micro 10 nisms.	
(a)	Micro organism capable of causing disease is called 10x1=10	
(b)	is a measure of acidity or alkalinity of a solution.	
(c)	Dormant state of rod shaped bacteria is called	
(d)	Minimum a <sub>w</sub> for molds is	
(e)	Microbes growing in high level of salt are	
(f)	Use of antimicrobial metabolites in place of preservative is	
(g)	The study of viruses is called	
(h)	Infection that causes inflammation of liver is	
(i)	are used in making of bread and wine.	
(j)	Organisms growing at low temperature are	

6.		cribe the extrinsic factors responsible for lage.	10
7.	(a)	Name any two emerging food borne diseases and describe them briefly	4
	(b)	What is the normal microflora of milk?	3
	(c)	Draw a typical bacterial growth curve and label various parts (No description).	3
8.	Write short notes on :		
	(a)	Probiotics and Prebiotics.	5
	(b)	MPN method.	5