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MVPI-001

POST GRADUATE DIPLOMA IN FOOD SAFETY AND QUALITY MANAGEMENT

Term-End Examination June, 2014

MVPI - 001: FOOD MICROBIOLOGY

Time: 2 hours Maximum Marks: 50

Note: Attempt any five questions. All the questions carry equal marks.

1. Match the following:-

1x10

(i) Catalase negative Amplification

(ii) EMB Cabbage

(iii) Differential Staining Mycotoxin

(iv) PCR Heat Resistant form

(v) Foor borne protozoan Bacillus

(vi) Spore Shigella

(vii) Gram negative rod Enterobacter

(viii) Aspergillus Anaerobes

(ix) Sauerkraut Entamoeba

(x) Putrefaction LAB

2.	(A)	Identify the micro-organisms	5
	(i)	Baker's yeast	
	(ii)	Grows on PDA	
	(iii)	Gram positive rod	
	(iv)	Anaerobic spore formers	
	(v)	Used in production of vinegar	
	(B)	Justify the statement that Food Microbiology is an applied branch of biology.	5
3.	(a)	Draw a bacterial cell and explain its structure	5
	(b)	What is the difference between Gram	5

positive and Gram negative cell wall?

4.	Give	the principle of the following	2½x4 =	=10
	(i)	Standard Plate Court		
	(ii)	MPN		
	(iii)	MBRT		
	(iv)	PCR		
5.	(a)	Differentiate between Food infection an Food intoxication	d	4
	(b)	List the emerging pathogens of concern of food origin	of	6
6.	(a)	State the role of lactic acid bacteria in foo fermentation	ď	6
	(b)	What is BSE?		4

7. Write short notes on (any four)

 $2\frac{1}{2}x4 = 10$

- (a) Coliforms
- (b) Bacteriological Examination of Water
- (c) Tempeh
- (d) Sporulation
- (e) Mycotoxins

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