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MVPI-001

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

## Term-End Examination December, 2019

MVPI-001: FOOD MICROBIOLOGY

Time: 2 hours Maximum Marks: 50						
Note	:	(i) Attempt any five qu (ii) All the questions ca (iii) All the parts of a qu				
1.	Mate	ch the following :		1x10=10		
	(a)	Peptidoglycan	(i) Require oxygen	2/120 10		
	(b)	Moist heat	(ii) Study of Algae			
	(c)	Phycology	(iii) Cell wall			
	(d)	Saccharomyces	(iv) Auto clave			
	(e)	Aerobic	(v) Yeast			
	(f)	Avian Influenza H5N1	(vi) Nucleic acid test			
	(g)	E. Coli	(vii) Virus			
	(h)	Thermoduric	(viii) Staphylococcus aureus			
	(i)	Coagulase test	(ix) Gram negative			
	(j)	PCR	(x) Survive Pasteurization			
2.	(a)	Describe the different type of microbiological media. •				
	(b)	Briefly describe the fermented soyabean products.				
3.	Wri	Write brief note on: 5x2				
	(a)	ELISA technique				
	(b)	Nucleic Acid Probes				
4.	(a)	Define spoilage. What are the types of spoilage encountered in food pro				
	(b)	What are the extrinsic factors that affect spoilage?				
5.	(a)	What are the various typ	5			
	(b)	What are the components of flow cytometry?				
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6.	Write short notes on any four of the following:		
	(a)	MBRT	
	(b)	Biosensors	
	(c)	Growth curve of microorganisms	
	(d)	Mycotoxins	
	(e)	Diseases caused by Parasites	
7.	(a)	Enlist the principles of food preservation.	4
	(b)	Differentiate between endotoxins and exotoxins.	4
	(c)	Give two examples of diseases caused by natural toxins.	2

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