MVPI-001

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P.T.O.

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

Term-End Examination					
	December, 2016				
	MVPI-001 : FOOD MICROBIOLOGY				
Time : 2 hours			Maximum Marks : 50		
Note :		Attempt any five questions. All questions carry equa marks.			
1.	Match the following :			1x10=10	
	(a)	Candida	(i)	Emerging food borne pathogen	
	(b)	Psychotrophs	(ii)	Mold	
	(c)	Ropiness of bread	(iii)	Aspergillus	
	(d)	Green rot of eggs	(iv)	Reduction test	
	(e)	Alternaria	(v)	Colon bacteria	
	(f)	Viroid	(vi)	Yeast	
	(g)	Vitamin K	(vii)	Cold-tolerant bacteria	
	(h)	MBRT	(viii)	Pseudomonas fluorescence	
	(i)	E.coli. 0157 : H7	(ix)	Single	
				Stranded	
				RNA	
	(j)	Ochratoxin	(x)	Bacillus subtilis	
2.	Define the following :			2x5=10	
	(a)	Food bioprocessing			
	(b)	Bacteriocins			
	(c)	Synbiotic			
	(d)	Saccharomyces			
	(e)	MPN			

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- State the significance of the following in food safety : (any two) 5x2=10
 - (a) Biochemical Tests LST - MUG method of E.coli detection
 - (b) Polymerase chain reaction
 - (c) Biochemical Kits
- 4. (a) Explain the need and scope of food 4 microbiology.
 - (b) List common molds and yeast involved in food spoilage with diagrams. 3+3=6
- 5. (a) Classify foods on the basis of their **4** perishability with examples.
 - (b) Explain the role of extrinsic parameters **6** affecting microbial growth.
- 6. (a) What are the various physical and chemical 6 changes in foods due to growth of micro-organisms ?
 - (b) Explain types of microbial spoilage **4** associated with meat and fish products.

7. Write short notes on any four : $2^{1/2}x4=10$

- (a) CAMP test for Listeria
- (b) Immuno Magnetic Separation
- (c) Sal monellosis and Cholera
- (d) Probiotics
- (e) Biosensor

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