Time: 2 hours

MVPI-001

Maximum Marks: 50

P.T.O.

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

Term-End Examination

December, 2018

MVPI-001: FOOD MICROBIOLOGY

Attamnt and fine adjections

Note	•	(ii) Attempt an	• •	ry equal marks.	
1.	Match the following:				1x10=10
	(a)	Listeria	(i)	Bacteriocins	
	(b)	Ochratoxin	(ii)	Blood Agar	
	(c)	Halophiles	(iii)	Yeast	-
	(d)	UV radiation	(iv)	Aspergillus	
	(e)	Thermostable Nuclease test	(v)	Food-borne pathogen	
	(f)	Enriched media	(vi)	Soyabean	
	(g)	Hepatitis A	(vii)	Salt tolerant organisms	
	(h)	Biopreservation	(viii)	Emerging food- borne pathogen	
	(i)	Candida	(ix)	Staphylococcus	
	(j)	Tempeh	(x)	Meat storage	

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2x5=102. Define the following: (a) Endotoxin **Proteolysis** (b) Temperature danger zone (c) (d) Water activity (e) Osmophilic microorganisms 3. State the significance of the following in food 5x2 = 10safety (any two): Detection of food-borne pathogens (a) **Biochemical Tests** (b) Immunological methods (c) Define the term Probiotic, Prebiotic and Synbiotic. 4. What are the possible health benefits of 3+7=10 Probiotics? 5. (a) Explain the role of Intrinsic parameters in affecting the growth of microorganisms in 6+4=10foods. Describe the spoilage of fruits and vegetables (b) due to molds. 6. (a) What are the main principles of food 3+7=10preservation? Give the procedure for the detection of (b) Staphylococcus aureus in a food sample using conventional technique. 7. Write short notes on any four of the following: Membrane filters (a) $2\frac{1}{2}x4=10$ (b) **Botulism** (c) **Bacterial Growth Curve** (d) Bacteriophage **CAMP Test** (e)