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**MVPI-001** 

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

## **Term-End Examination**

## June, 2020

MVPI-001 : FOOD MICROBIOLOGY

Time: 2 Hours.

Maximum Marks : 50

Note: (i) Attempt any five questions.

(ii) All questions carry equal marks.

(iii) All the parts of a question must be attempted together.

1. Match the following :

1'each

- (i) Petroff-Hausser (a) Milk quality Counter
- (ii) Laminar airflow (b) Protozoa
- (iii) Comma shaped (c) Below 8°C

(iv)	Cold storage	(d)	Aseptic work
		1	area
(v)	Spore	(e)	Vibrio
<b>(vi)</b>	Toxoplasma	(f)	Direct
,	gondii		microscopic count
(vii)	MBRT	(g)	Inactive or
			Dormant state
(viii)	MYP Agar	(h)	Degree of
			Pathogenicity
(ix)	Salmon <del>ella</del>	(i)	Bacillus cereus
(x)	Virulence	(j)	BSA, XLD Agar
	•		

2. What are the sources of food contamination ? Explain intrinsic factors affecting food spoilage.

5 + 5

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- 3. Write brief notes on the following : 5 each(a) PCR
  - (b) DNA chips and microarrays
- 4. (a) Write the importance of fermented foods. 5
  - (b) What are secondary metabolites ? Give three examples. 2+3

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- 5. (a) Explain the dye reduction tests used to detect quality of milk. 5
  - (b) Define different fermented dairy products.
- 6. Write short notes on any *four* of the following :
  - $2\frac{1}{2}$  each

5

- (a) Negative Staining
- (b) Antibiotic Resistance
- (c) CAMP test
- (d) Water activity
- (e) Bacterial growth curve
- 7. (a) Explain the common methods of food preservation. 5
  - (b) Explain the principle of LST-MUG method for the detection of *E. coli*. 5

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