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

Term-End Examination

December, 2022

MVPI-001 : FOOD MICROBIOLOGY

Time : 2 hours

Maximum Marks : 50

Note: Attempt any *five* questions. All questions carry equal marks. All the parts of a question must be attempted together.

- **1**. Explain any *ten* of the following terms : $10 \times 1 = 10$
 - (a) Aerobe
 - (b) Bacteriocin
 - (c) Halophile
 - (d) Prokaryotic cells
 - (e) Aflatoxin
 - (f) Zoonotic
 - (g) Norwalk virus
 - (h) CFUs
 - (i) PDA
 - (j) DMC
 - (k) Virulence
 - (l) Enterotoxins

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2.	(a)	What is Systematics ? Enumerate differenttypes of bacteria on the basis ofmorphology.	5
	(b)	Enumerate five important mold/yeast genera.	5
3.	(a)	Define foodborne diseases. Differentiate between food infection and food intoxication.	5
	(b)	Name five common foodborne diseases with their causative organisms.	5
4.	(a)	What are fermented foods ? Write their importance.	5
	(b)	Give a generalized scheme of various operations employed in food fermentation technology.	5
5.	(a)	What are dye reduction tests ? Explain the principle and procedure of any one.	5
	(b)	What is Gram Staining ? Explain its principle.	5
6.	Give follow	the protocol for detection of the ring : $2 \times 5 = 10$	2
	(a)	Bacillus cereus	
	(b)	Listeria monocytogenes	

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7. Write short notes on any two of the following: $2 \times 5 = 10$

- (a) Biochemical Kits
- (b) Immunological Kits
- (c) Steps in PCR Cycle