No. of Printed Pages : 3

MVPI-001

POST GRADUATE DIPLOMA IN FOOD SAFETY AND QUALITY MANAGEMENT (PGDFSQM) Term-End Examination December, 2023 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. Define any *five* of the following terms : $5 \times 2=10$
 - (a) Mycology
 - (b) Halophile
 - (c) Psychrotrophs
 - (d) Aflatoxin
 - (e) MISO
 - (f) Spore

(a)	Explain the role of microorganisms in
	foods. 5
(b)	What is a bacterial growth curve ? Draw
	and explain the various stages. 5
	te the principles of food preservation and lain heat as an agent of preservation. 10
(a)	What are the types of food-borne diseases ?
	5
(b)	Name five common food-borne pathogens
	and their symptoms. 5
(a)	Write a note on fermented foods and their
	importance. 5
(b)	What is Food Fermentation Technology ? 5
(a)	What is the role of cell wall structure in
	Gram's staining ? 5
(b)	State the protocols for detection of Listeria
	monocytogens. 5
Wri	te notes on the following : $2 \times 5 = 10$
(a)	ELISA
	 (b) State expl (a) (b) (a) (b) (a) (b) (b) (b) (c) (c

(b) Nucleic Acid Probes

- 8. (a) How will you detect the presence of proteolytic and lipolytic organisms in food sample ? 5
 - (b) What is the role of culture media in the enumeration of different types of microorganisms?