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MVPI-001

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

Term-End Examination

December, 2024

MVPI-001 : FOOD MICROBIOLOGY

Time : 2 Hours

Maximum Marks : 50

Note : (i) Answer any **five** questions.

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

(iii) All questions carry equal marks.

1. Define any *ten* of the following : 1×10=10

- (a) Viroid
- (b) Thermotolerant bacteria
- (c) Endospore
- (d) Facultative anaerobes
- (e) Halophile

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- (f) Binary fission
 - (g) Bacillus
 - (h) Psychrotroph
 - (i) Exotoxin
 - (j) Prion
 - (k) Bacteriocin
 - (l) Virion
2. (a) Describe different groups of micro-organisms present in food. 5
- (b) Name *ten* common bacterial groups present in food. 5
3. (a) Discuss the sources of food contamination in detail. 5
- (b) What are the various factors affecting spoilage ? 5
4. (a) Define probiotics and give their health benefits. 5
- (b) Write a note on common methods of food preservation. 5

5. Explain the following : 2×5=10
- (a) Emerging food-borne diseases
 - (b) Fermented foods
6. Describe the following : 2×5=10
- (a) Direct Microscopic Count
 - (b) ELISA
7. (a) Describe the method used for detection of *Clostridium perfringens* in food products. 5
- (b) Discuss flow cytometry. 5

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