

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

Term-End Examination

June, 2025

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.

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1. Define any *ten* of the following : 10×1=10
- (a) Food Safety
 - (b) Endotoxin
 - (c) Antimicrobials
 - (d) Biological Hazard

- (e) Holophile
 - (f) Stationary Phase
 - (g) Vegetative Cell
 - (h) Food Preservative
 - (i) Exponential Phase
 - (j) Endospore
 - (k) Food Irradiation
 - (l) Spore
2. (a) Give the steps of the preparation of media. What do you understand by differential media ? 5
- (b) Describe Standard Plate Count (SPC) method. 5
3. (a) Explain PCR. 5
- (b) Classify biosensors. Give their applications in clinical diagnosis and food safety. 5
4. (a) Explain Gram staining process. 5
- (b) Narrate the Protocol for the detection of coliforms. 5

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5. Discuss intrinsic and extrinsic factors affecting spoilage. 10
6. Write short notes on the following : 2×5=10
- (a) Food-borne disease
 - (b) Indigenous fermented food
7. (a) Explain the role of Prebiotics and Probiotics in human health. 5
- (b) Explain MBR test. 5

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