No. of Printed Pages : 2 **MVPI-001** POST GRADUATE DIPLOMA IN FOOD SAFETY ic AND QUALITY MANAGEMENT (PGDFSQM) 0105

Term-End Examination December, 2011

MVPI-001 : FOOD MICROBIOLOGY

Time : 2 hours

Maximum Marks : 50

Attempt any five questions. All questions carry equal Note : marks.

- Give one example of each : 1.
 - Gram negative rod (a)
 - (b) Endospore former
 - (c) Food virus
 - Mycotoxin producer (d)
 - (e) Differential staining
 - (f) Acetic acid producer
 - Proteolytic micro organism (g)
 - (h) Rapid method for microbial enumeration
 - Selective culture medium (i)
 - (j) Cocci in bunches

Define the following : 2.

- (a) Coliforms
- Food Safety (b)
- (c) Probiotic
- (d) Food Contamination
- (e) Fermentation.

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P.T.O.

 $1 \times 10 = 10$

2x5 = 10

- 3. Differentiate between :
 - (a) Mold vs yeast
 - (b) Food Infection vs Food Intoxication
 - (c) Catalase test vs Oxidase test
 - (d) Aspergillus vs Penicillium
 - (e) Halophiles vs Osmophiles
- 4. (a) Define spoilage. 3
 - (b) List the common physical and chemical 7 changes associated with spoilage of foods.
- Explain the principle of the following methods
 (any two) : 2x5=10
 - (a) Flow Cytometry
 - (b) ELISA
 - (c) PCR.
- 6. (a) What is Food Fermentation Technology ? 5
 - (b) List the common (five) food borne diseases 5 along with their causative organism.
- 7. Write short notes on : (*any four*) 2.5x4=10
 - (a) Biosensor
 - (b) Water Activity
 - (c) BSE
 - (d) MPN test
 - (e) Oriental fermented foods.

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