

00051 POST GRADUATE DIPLOMA IN FOOD SAFETY  
AND QUALITY MANAGEMENT (PGDFSQM)

Term-End Examination

December, 2015

MVPI-001 : FOOD MICROBIOLOGY

Time : 2 hours

Maximum Marks : 50

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

1. Fill in the blanks : 1x10=10

- (a) ELISA is rapid method for detection of \_\_\_\_\_ .
- (b) Methods of counting bacteria are called \_\_\_\_\_ methods.
- (c) Adding acid/base to media is done to adjust \_\_\_\_\_ .
- (d) Binary fission is \_\_\_\_\_ mode of reproduction.
- (e) Science of biological classification is \_\_\_\_\_ .
- (f) Food borne diseases are caused by consuming \_\_\_\_\_ foods.
- (g) Tempel is a fermented \_\_\_\_\_ product.
- (h) \_\_\_\_\_ are dietary supplements containing beneficial bacteria.
- (i) Catalase is a microbial \_\_\_\_\_ .
- (j) As micro-organisms grow they tend to form \_\_\_\_\_ .

2. Explain using diagram (any two) : 5x2=10  
(a) Bacterial growth curve  
(b) pH and growth of micro-organisms  
(c) Nucleic acid probes.
3. Give the principle behind (any five) : 2x5=10  
(a) Resazurin test  
(b) MPN method  
(c) Endospore staining  
(d) Negative staining  
(e) DMC  
(f) Immunological methods
4. Briefly discuss all the factors affecting spoilage of food. 10
5. Comment on the following (any two) : 5x2=10  
(a) Emerging Food Borne Diseases.  
(b) Important mold Genera.  
(c) Viral pathogens  
(d) Biosensors
6. What is Food poisoning and explain different types of food poisoning ? 10
7. (a) What is the importance of micro-organisms in foods ? 5+5=10  
(b) What do you know about food contamination ?
8. Write short notes on (any two) : 5x2=10  
(a) Food Borne Diseases.  
(b) Food Fermentations.  
(c) Food Spoilage.
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