No. of Printed Pages : 3

MVPI-001

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

Term-End Examination

June, 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 *ten* of the following terms : 1×10=10

   (a) Endospore

   (b) Hepatitis

   (c) Antioxidants

   (d) Food acids

   (e) Enteropathogenic

(f) Zoonotic

(g) PDA

(h) MF

(i) Neurotoxins

(j) Cytotoxins

(k) PCR

(l) RABIT

2. (a) State the importance of microorganisms in foods. 5

(b) Give the scientific name of the following : 1×5=5

(i) Baker's yeast

(ii) Bread mold

(iii) Cocci in branches

(iv) Aerobic spore former

(v) Anaerobic spore former

3. (a) Enumerate *five* sources of food contamination. 5

(b) Explain food spoilage by giving causes and types. 5

4. (a) Give the principles of food preservation. Enumerate preservative methods and effect on microorganisms. 5

   (b) Enumerate health benefits of probiotics. 5

5. (a) Draw a general scheme for preparation of microbiological media. 5

   (b) Enumerate various types of staining used for studying bacteria culture. 5

6. Give the protocol for detection of : 2×5=10

   (a) *E.coli* and coliforms

   (b) *Clostridium perfringens*

7. (a) Enlist the components of flow cytometry. 5

   (b) Explain biosensors covering applications and types. 5