

No. of Printed Pages : 3

MVP-005

**M. SC. IN FOOD SAFETY AND
QUALITY MANAGEMENT
(MSCFSQM)**

Term-End Examination

December, 2025

**MVP-005 : FOOD TOXICOLOGY AND PUBLIC
HEALTH**

Time : 3 Hours

Maximum Marks : 100

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

(ii) All questions carry equal marks.

-
-
1. Define the following (any *ten*) : 10×2=20
- (a) Acceptable daily intake
 - (b) Xenobiotic
 - (c) Lethal dose
 - (d) Biotransformation
 - (e) Genotoxicity
 - (f) Maximum residue limit

C-2468/MVP-005

P. T. O.

- (g) Endotoxin
 - (h) GRAS
 - (i) Incubation period
 - (j) Epidemiology
 - (k) Withdrawal period
2. Write short notes on the following (any *four*) : 4×5=20
- (a) Food allergy
 - (b) Organochlorine compound toxicity
 - (c) Causes of veterinary drug residues in food
 - (d) Bisphenol-A toxicity
 - (e) Epidemiological triad of food-borne disease
3. (a) Describe the factors that affect toxicity of compounds. 10
- (b) How are the toxicants absorbed by gastrointestinal tract in our body ? 10
4. (a) Enlist plant toxins and write the sources and symptoms of any *four* plant toxins. 10

- (b) Enumerate major heavy metals found in food. Explain the toxicity of *four* such heavy metals. 2+8
5. (a) Give a detailed account of sources, toxins, mode of action, symptoms and control measures of any *one* bacterial toxin. 10
- (b) How are PAAs and PAHs formed in food ? Explain how their formation can be reduced. 5+5
6. (a) Briefly discuss the toxicity of food additives. 10
- (b) Narrate the factors that contribute to emergence of food-borne pathogens. Give examples of some emerging food-borne pathogens. 8+2
7. Describe the steps undertaken to investigate an outbreak. 20

× × × × ×