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MVP–005

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

Term-End Examination

June, 2026

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) Antidote

   (b) Biological half-life

(c) Acute toxicity

(d) Lactose intolerance.

(e) Favism

(f) Maximum residue limit

(g) Exotoxin

(h) Estimated daily intake

(i) Specific migration limit

(j) Zoonotic disease

(k) Morbidity rate

2. Write short note on the following (any *four*) : 4×5=20

(a) Alcohol toxicity

(b) Toxins from shellfish

(c) Arsenic toxicity

(d) Botulism

(e) Carcinogens in food

3. (a) Explain the process of biotransformation of toxicants in human body. 10

(b) Elaborate the process of solid sample extraction for analysis of toxicants. 10

4. (a) Classify food adulteration and describe the methods of detecting adulterants. 10

(b) Give the classification of pesticides based on target pests. How the residues of these pesticides in food can be reduced ? 5+5

5. (a) Narrate the concerns of veterinary drug residues in food. 10

(b) Enlist fungal toxins and give the sources, toxicity, symptoms and prevention of one such toxin. 10

6. (a) What are the toxic effects of acrylamide ? How can its toxicity be prevented ? 5+5

   (b) Discuss the impact of foodborne diseases. 10

7. Define foodborne disease surveillance and give its objectives. How are data collected, analysed and interpreted for food borne disease surveillance ? 2+5+13

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