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

Term-End Examination June, 2024

MVP-005 : FOOD TOXICOLOGY AND PUBLIC HEALTH

Time: 3 Hours Maximum Marks: 100

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

- (ii) All questions carry equal marks.
- 1. (i) Explain the following (any *five*): $5\times2=10$
 - (a) Food Toxicology
 - (b) LD50
 - (c) MRL
 - (d) ADI
 - (e) Xenobiotic
 - (f) Toxicokinetics
 - (g) Zootoxin
 - (ii) Discuss the factors affecting toxicity of compounds.

- 2. Give the primary entry routes of toxicants in human body. Describe the process of absorption and distribution of toxicants in our body. 4+16
- 3. Discuss the natural toxins of plant and marine sources.
- 4. Write the characteristics of heavy metals and their sources in soil-crop system. Explain the toxicity, sources of exposure and outbreaks of any *two* heavy metal contamination. 10+10
- 5. Write notes on the following: $4 \times 5 = 20$
 - (i) Toxicity of acrylamide and its preventive strategies.
 - (ii) Toxicity and mitigation of polycyclic aromatic hydrocarbon.
 - (iii) Toxicity of food additives
 - (iv) Causes of veterinary drug residues in food.
- 6. Discuss the steps of any disease outbreak investigation.
- 7. (i) Describe any *two* bacterial toxins with respect to their toxicity symptoms, prevention and control.
 - (ii) Give the definition, objectives and types of food surveillance. 10