

B.Sc. (FNS) (NEP) Sem.-5 Examination**DSC-M-354****Food Toxicology****November-2025****Time : 2-00 Hours]****[Max. Marks : 50****Question 1 Write the following**

- (i) Write a brief note on food toxicology and different types of toxicity? (5 Marks)
- (ii) Explain Botulism food poisoning with respect to causative agent, symptoms and preventive measures? (5 Marks)

OR

- (i) Write a brief note on Mycotoxin? (5 Marks)
- (ii) Explain two types of viral food poisoning with respect to causative agent, symptoms and preventive measures? (5 Marks)

Question 2 Write the following

- (i) Describe Natural toxin with examples of Glycoalkoid? (5 Marks)
- (ii) What are chemical toxins? Describe different route of exposure and harmful effect of pesticide poisoning? (5 Marks)

OR

- (i) Write a detailed note on microbial toxin with examples? (5 Marks)
- (ii) What is heavy metal toxicity? What is Minamata disease? (5 Marks)

Question 3 Write the following

- (i) Explain different types of mutation? (5 Marks)
- (ii) Define Oncology? Explain causes, symptom and different types of cancer? (5 Marks)

OR

- (i) Write a brief note on teratology? (5 Marks)
- (ii) Write a brief note on dose response curve? (5 Marks)

Question 4 Write the following

- (i) Write a brief note on food additives? (5 Marks)
- (ii) Write a brief note on dietary supplements? (5 Marks)

OR

- (i) Explain the importance of food safety in food industry and different factors them? (5 Marks)

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- (ii) Explain harmful compounds which are generated during food processing? (5 Marks)

Question 5 Attempt any ten out of fifteen

(10 Marks)

- (i) Define toxicant?
- (ii) Define endotoxin?
- (iii) Define carcinogen with example?
- (iv) Define mutagen with example?
- (v) Define half maximal effective concentration (EC50)?
- (vi) Define allergy?
- (vii) Define genotoxicity?
- (viii) Give two examples of food additives?
- (ix) Define ADI?
- (x) Name the species which secrete aflatoxin?
- (xi) Which species of mushroom is known as "Death cap"?
- (xii) Name two rotavirus vaccines given to infants?
- (xiii) Define benign tumour?
- (xiv) Give two symptoms of hepatitis?
- (xv) Define ADME?

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