

**B.Sc. FOOD SCIENCE & TECHNOLOGY**  
**Third Semester**  
**FOOD TOXICOLOGY & SAFETY**  
**(BFST - 301)**

**Duration: 3Hrs.**

**Full Marks: 70**

Part-A (Objective) =20  
Part-B (Descriptive) =50

**(PART-B: Descriptive)**

**Duration: 2 hrs. 40 mins.**

**Marks: 50**

**Answer any four from Question no. 2 to 8**  
**Question no. 1 is compulsory.**

1. Define toxin. Explain the toxicity by naturally occurring toxins of plant and animal origin. (2+8=10)
2. What is toxicology? What are their branches? Discuss the ADME of a toxicant. (2+3+5=10)
3. Define Food Law. Write the significance of AGMARK and BIS in food processing sector. (2+4+4=10)
4. What is water intoxication? Write the names of different diseases associated with water intoxication. Discuss the toxicity of cyanogens and lathrogen. (1+3+6=10)
5. What is agricultural chemical? Classify them with examples. Write the adverse effect of Agricultural chemicals in Environmental pollution. (1+6+3=10)
6. Write the basic seven principles of HACCP. What is Codex Alimentarius commission? Discuss briefly. (7+3=10)
7. What is TQM? Explain in brief. Write the principles of TQM. (10)
8. What is PFA? Write the objectives of PFA and explain its significance in food processing sector. (2+8=10)

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**Duration: 20 minutes**

**Marks – 20**

**(PART A - Objective Type)**

**I. Write abbreviations of the following:**

**1×5=5**

- a. ISO :
- b. FPO :
- c. MMPO :
- d. AGMARK :
- e. HACCP :

**II. Fill in the blanks:**

**1×5=5**

- a. ....is an example of mycotoxin.
- b. ....is an insecticide.
- c. ....is an example of plant toxin.
- d. CCP means.....
- e. FSMS means.....

**III. Answer the following:**

**1×10=10**

- a. What is tetradoxin poisoning?



b. Which is responsible for ciguatera poisoning?

c. What is hemotoxin?

d. Define phototoxin.

e. What is GMP?

f. In which year was PFA formulated?

g. Give an example of neurotoxin.

h. Write the names of the Bile pigments?

i. Write the names of the Bile Acids.

j. Write the name of one disease caused by prion.

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