CHUKA



UNIVERSITY

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EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN

FOST 413: FOOD TOXICOLOGY

STREAMS: DTHM Y1S1

TIME: 2 HOURS

DAY/DATE: TUESDAY 30/03/2021

11.30 A.M – 1.30 P.M

INSTRUCTIONS:

Answer all questions in section A and any two questions in section B

SECTION A : ANSWER ALL QUESTIONS (30 MARKS)

1.	Briefly explain the following terms as used in food toxicology.	[6 marks]
	(a) Margin of safety	
	(b) Hormesis	
	(c) Codosing	
2.	Describe the major types of toxicity related to foods.	[4 marks]
3.	Using a diagram explain dose-response relationship as it applies to food to	oxicology. [6
marks]		
4.	Explain three categories of hazards in foods.	[6 marks]
5.	Explain the methods used to reduce mycotoxin contamination along the fe	ood chain. [4
marks]		
6.	Explain how good manufacturing practices can be used to reduce contami with toxins.	ination of food [4 marks]

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

(a) Discuss how agricultural practices may contribute to contamination of food with chemical toxic contaminants and the underlying consequences of agricultural to human health. [10 marks]

(b) Discuss the strategies that can be put in place to reduce the presence of specific toxic agricultural residues in foods in Kenya. [10 marks]

8. (a) Discuss HACCP as a control measure for the reduction of or elimination of toxins from a specific food of your choice. [14 marks]

(b) Describe the phases of toxicological effects. [6 marks]

9. (a) Discuss the formation and toxic effects of each one of the following. [9 marks]

(i) Ciguatoxin

(ii) Acrylamide

(iii) Nitrosamine

(b) Describe the meaning and importance of risk assessment in the context of toxicological safety of foods. [11 marks]
