FOST 323

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN FOOD SCIENCE

FOST 323: FOOD CHEMISTRY II

STREAMS: BSC (FOST) Y3S1

TIME: 2 HOURS

DAY/DATE: TUESDAY 05/12/2017

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO IN SECTION B

SECTION A

1.	Classi	fy vitamins with examples.	[4 marks]
2.	Descr	Describe the biological function of vitamin B ₂ (Riboflavin). [4 marks]	
3.	Explain briefly the general functions of minerals and trace elements.		[6 marks]
4.	Use examples to explain food additives reported to cause adverse reactions.[6 marks]		
5.	Explain the principle biological functions of zinc as a mineral. [5 marks]		
6.	Discu	ss the biological functions of vitamin A.	[5 marks]
SECTION B			
7.	(a)	Discuss the macro element calcium under;	
		(i) Biological functions;	[6 marks]
		(ii) Dietary sources and absorption	[4 marks]
	(b)	By use of examples explain the effect of processing on nutritional value of foods.	
			[10 marks]
8.	(a)	Describe the roles played by Cholecalciferol and its dietary sources.[10 marks]	
	(b)	(b) Explain the deficiencies caused by presence of dietary anti-vitamin factors.	
		[8 marks]	

9. By using examples, describe the food additives that are commonly added to foods.

[20 marks]
