

# **SOUTH EASTERN KENYA UNIVERSITY**

# **UNIVERSITY EXAMINATIONS 2016/2017**

# FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

#### **BCH 406: NUTRITIONAL BIOCHEMISTRY**

8<sup>TH</sup> DECEMBER, 2016

TIME: 10.30-12.30 P.M

## **INSTRUCTIONS TO CANDIDATES**

- (a) Answer ALL the Questions in Section A
- (b) Answer ANY TWO Questions in Section B
- (c) Illustrate your answers with well labeled diagrams where appropriate

## Section A (30 Marks)

1. Describe the factors that determine food acceptance.	(5 Marks)
2. Describe the importance of carbohydrates.	(5 Marks)
3. Describe the functions of selenium.	(4 Marks)
4. Describe the controlling factors of the maillard reactions.	(3 Marks)
5. Describe the dietary reference intakes.	(4 Marks)
6. Discuss briefly the menke's disease.	(3 Marks)
7. Discuss briefly the essential fatty acids.	(6 Marks)

# Section B (40 Marks)

8.	Discuss in detail the processing and packaging of foods.	(20 Marks)
9.	Discuss the food security and nutritional status in Kenya.	(20 Marks)
10	. Discuss the anthropometric and biochemical indicators in nutritional status	
	studies.	(20 Marks)
11	. a) Describe the applications of dietary standards.	(10 Marks)
	b) Discuss in detail the nutritional disorder kwashiorkor	(10 Marks)