FOND 123



UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF SCIENCE IN NUTRITION AND DIETETICS SECOND SEMESTER, 2021/2022 (FEBRUARY - JUNE, 2022)

### FOND 123: MACRONUTRIENTS

STREAM: Y1 S2

TIME: 3 HOURS

DAY: FRIDAY, 2:00 - 5:00 P.M.

DATE: 13/05/2022

#### INSTRUCTIONS

- 1. Do not write anything on this question paper.
- 2. Answer Question ONE [Compulsory] and any other TWO Questions.

### SECTION A IS COMPULSARY AND IS 40 MARKS

#### **QUESTION ONE**

a. Differentiate the following terminologies giving any relevant examples

[5 marks]

- **1.** Parathormone and calcitonin
- **2.** Essential nutrients and non essential nutrients
- **3.** Nutrients and nutrition
- **4.** .enrichment and fortification
- **5.** Major minerals and Trace Minerals
- b. Discuss and Relate foods with specific micronutrients in nutrition [5 marks]

c. Elaborate on the Biochemical and Physiological needs of nutrients in the body [5marks]

d.	Discuss the metabolic processes of vitamins in the body	[5marks]
e.Ellaborate On The Factor affecting zinc absorption		[5 marks]

F. Discuss on the Nutrient Deficiency Stages with an aid of a diagram [5 marks]

G. Discuss on the Interferences of phosphorus levels in the body [5 marks]

H. Discuss the five factors that affect how much of a vitamin is available to the body. [5 marks]

## SECTION B IS 30 MARKS

## **QUESTION TWO**

a) Differentiate between water soluble vs fat solable vitamins g examples	iving relevant (7 marks)		
b) Discuss on the Metabolic Pathways Involving B Vitamins	[8 marks]		
QUESTION THREE			
a) With examples, differentiate between vitamins vs minerals	[7marks]		
b) Discuss on the Factors that influence calcium absorption	[8marks]		

# **QUESTION FOUR**

a).Discuss on the various Trace minerals ,their RDAS ,functions in the human body [7marks]

b).Explain the consequences of inadequate and excessive vitamin intake giving relevant examples [8 marks]