

MURANG'A UNIVERSITY COLLEGE (A constituent college of Jomo Kenyatta University of Agriculture and Technology

SCHOOL: HOSPITALITY AND TOURISM MANAGEMENT

DEPARTMENT: FOOD SCIENCE AND TECHNOLOGY

UNIT COD: DND 1102

UNIT TITLE: INTRODUCTION TO HUMAN NUTRITION

END OF SEMESTER EXAMINATION

DATE: 9-12-2015

TIME: 2.00PM-4.00PM

ANSWER 4 QUESTIONS IN TOTAL.

QUESTION ONE IS COMPULSORY.

QUESTION 1 COMPULSORY.

a) Define the following terms	
i. nutrition	(2marks)
ii. essential nutrient	(2marks)
b).List three functions provided by nutrients	
c) Differentiate with examples between a Saturated and Unsaturated fatty acids	
d) Sate the micro nutrients deficient in the following diseases stating symptoms	
i) Beriberi	(4marks)
ii) Pellagra	(4marks)
iii) Goitre	(4marks)

QUESTION 2

b) c)	Explain the Classification of carbohydrates and give two examples in each class Outline the digestion of carbohydrates andstate the enzymes involved. State the functions of carbohydrates	(6marks) (6marks) (4marks)
	Discuss the deficiency disease of carbohydrates.	(6marks)
e)	State food sources of carbohydrates.	(3marks)

QUESTION 3

a) Define th	e terms;	
a. i)	Protein Quality	(2marks)
b. ii) Amino acid	(2marks)
b) Distingui	sh with examples between essential andNon-essential amino acid	(6marks)
, U	he Digestion and absorption of proteins.	(6marks)
· •	UR functions of proteins	(4marks)
	he deficiency disease of protein.	(5marks)
QUESTION 4		
a) H	ighlight thecharacteristics of Vitamin A	(4marks)
,	ate the sources, functions and deficiency diseases of each of the	
	ollowing vitamins;	
	itamin Č	
V	itamin D	
V	itamin K	(12marks)
c) Outli	ne two functions and deficiency diseases for each of the following	
	i. calcium	
	ii. Iron	
i	ii. iodine	(9marks)
QUESTION 5		
a) Discuss f vulnerabi	our groups that are more vulnerable to malnutrition than others giving lity.	reasons for (10marks)
b) Describe how to undertake the anthropometric measurements		(9marks)
c) Discuss two methods of assessing the dietary intake.		