TECHNICAL UNIVERSITY OF MOMBASA
( B)

# FACULTY OF APPLIED AND HEALTH SCIENCES <br> DEPARTMENT OF ENVIROMENT \& HEALTH SCIENCES <br> UNIVERSITY EXAMINATION FOR: <br> BACHELOR OF MEDICAL LABORATORY SCIENCES 

BMLS17S/YEAR 4/SEMESTER 2
AFS: 4401 PRINCIPLES OF HUMAN NUTRITION
END OF SEMESTER EXAMINATION
SERIES: AUGUST 2019
TIME: 2 HOURS

## Instructions to Candidates

This paper consists of FIVE questions
Answer question ONE (COMPULSORY) and any other TWO questions.
This paper consists of two printed pages.
Mobile phones are NOT allowed in the examination room

## QUESTION ONE

a)Define the following terms:
i)Balanced diversified diet 2marks
ii) Recommended dietary allowance 2 marks
b) Differentiate
i) Undernutrition from overnutrition. 4 marks
ii)Microcytic anemia from macrocytic anemia 4 marks
c) Outline five reasons why good nutrition is important for good health. 5marks
d) Outline five factors that make good nutrition important for people suffering from HIV/AIDS.

5 marks
e)i) State beneficial effects of essential fatty acids. 4 marks
ii)State adverse effects of essential fatty acids 4 marks

## QUESTION TWO

a)Discuss maintenance of nitrogen balance in the body. 10 marks
b)Explain nutritional disease management. 10 marks

## QUESTION THREE

Discuss utilization of iron in human nutrition under the following
-Funtions.
-Absorption
-Desease state
-Sources 20 marks

QUESTION FOUR
a)Discuss Kwashiorkor under the following
i)Occurrence
ii)Clinical symptoms
iii)Treatment 10 marks
b)Explain deficiency diseases associated with calcium 10 marks

## QUESTION FIVE

Explain four underlying causes of poor nutrition in communities. 20 marks

