

### MACHAKOS UNIVERSITY

### SCHOOL OF HOSPITALITYAND TOURISM MANAGEMENT

## DEPARTMENT OF HOSPITALITY MANAGEMENT

# FIRST YEAR SPECIAL EXAMINATION FOR CERTIFICATE IN HOSPITALITY AND TOURISM OPERATIONS

## **CHTO 013: INTRODUCTION TO NUTRITION**

### DATE:

TIME:

### **INSTRUCTIONS:**

Answer all the questions in section A and any two in section B.

### SECTION A

- 1 a) Define the following terms(10 marks)
  - i. Nutrition
  - ii. Diet
  - iii. Balanced diet
  - iv. Nutrients
  - v. Malnutrition
  - b) Identify four functions of Vitamin C in the body (4 marks).
  - c) Describe the effects of heat on fats (6 marks).
  - d) Calculate the energy value of the following meal (10 marks).
  - 8g of carbohydrates
  - 4g of protein
  - 3g of fat

### **SECTION B**

- 2 a) Explain five factors that influence recommended dietary allowances (10 marks).
  - d) Explain the classification of carbohydrates (10 marks).
- 3 a) Describe five symptoms of Pellagra (10 marks).

- b) Explain five causes of malnutrition in Kenya today (10 marks).
- 4 a) Explain five factors to consider when planning meals (10 marks).

b) Nutrients work together for the proper functioning of the body. Giving examples, explain such interactions (10 marks).

- 5 a) Describe five nutritional needs of Invalids (10 marks)
- b) Fill in the gaps for the following trace elements (10 marks).

Trace element	<b>Biological function</b>	Dietary
		sources
Iron		
Zinc		
Magnese		
Cobalt		
Selenium		