# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## **University Examinations 2013/2014**

## SECOND YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SCIENCE AND NUTRITION

#### **AFN 2204: NUTRITION ASSESSMENT**

**DATE: DECEMBER 2013** 

**INSTRUCTIONS:** Answer question **one** and any other **two** questions.

### **QUESTION ONE (30 MARKS)**

- a) Define the following terms:
  - i. Nutrition assessment
  - ii. Anthropometry
  - iii. Malnutrition
  - iv. Body mass index
  - Stunting v.
  - Wasting vi.
- b) Describe the following dietary assessment methods as used in nutritional assessment.
  - i. 24 hour dietary recall (5 Marks)
  - ii. Food frequency questionnaire (5 Marks)
  - iii. Weighed and estimated food records (4 Marks)
- c) What nutrient deficiency do the following clinical signs and symptoms indicate?
  - (4 Marks)

- ii. Swelling at front of neck
- iii. Spoon-shaped nails

Bitot's spots

iv. Bowed legs or knock knees

#### **QUESTION TWO (20 MARKS)**

i.

- a) Differentiate between the following:
  - Primary and secondary malnutrition i.



**TIME: 2 HOURS** 

(12 Marks)

(8 Marks)

i	i. Under nutrition and over nutrition	
b) [	Discuss protein-energy malnutrition	(12 marks)
QUESTIC	ON THREE (20 MARKS)	
a) List 5 methods for measuring body composition.		(5 Marks)
b) Write short notes on the following;		(15Marks)
i.	Body mass index	
ii.	Waist circumference	
iii.	Waist – to – hip ratio	
QUESTIC	ON FOUR (20 MARKS)	

Discuss the biochemical nutrition assessment method. (20 Marks)