



# **MASENO UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2017/2018**

### **FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR DEGREE OF MASTER OF SCIENCE IN COMMUNITY NUTRITION AND DEVELOPMENT**

#### **CITY CAMPUS**

#### **PCN 811: NUTRITION IN DEVELOPING COUNTRIES**

Date: 29<sup>th</sup> January, 2018

Time: 9.00 - 12.00pm

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#### **INSTRUCTIONS:**

- Follow the instructions as attached



**INSTRUCTIONS:**

- This paper is made up of three (3) sections, A, B, and C
- Section A has 10 marks and is composed of True/False questions and Multiple Choice Questions (MCQs)
- Section B has 10 marks and is composed of Short Answer Questions (SAQs)
- Section C has 40 marks and is composed of Long Answer Questions (LAQs)
- Answer ALL questions in sections A and B in the spaces provided in the question paper
- Question number FIFTEEN (15) is compulsory in section C. Choose and answer question number sixteen or seventeen from this section. = = =

**SECTION A (10 MARKS)**  
**ANSWER SHEET FOR MCQ (SINGLE RESPONSE QUESTIONS)**

REG. NO \_\_\_\_\_  
COURSE CODE AND TITLE \_\_\_\_\_  
SECTION \_\_\_\_\_

	a	b	c	d	e
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

**SECTION A (10 MARKS)**

**ANSWER ALL QUESTIONS IN THIS SECTION**

**Choose the correct answer(s) that apply to each of the following questions (10 marks)**

**MCQ1.** Which one of the following is a major risk factor for undernutrition?

- A. Poverty
- B. Social deprivation
- C. Age
- D. Infection
- E. Income

**MCQ2.** All of the following groups are vulnerable to secondary malnutrition except:

- A. Obese persons
- B. Elderly
- C. Adolescents
- D. Groups with chronic conditions e.g. cancer
- E. None of the above

**MCQ3.** Oedema is a characteristic of kwashiorkor, which is a form of:

- A. Vitamin A deficiency
- B. Renal disorder
- C. Chronic malnutrition
- D. Severe acute malnutrition
- E. None of the above

**MCQ4.** Inadequate food intake or inadequate breast feeding may cause:

- A. Primary deficiency of one nutrient
- B. Protein energy malnutrition
- C. Marasmus
- D. Kwashiorkor
- E. All of the above

**MCQ5.** The general feeding programme is given when the general undernutrition is less than:

- A. 25%
- B. 30%
- C. 20%
- D. 50%
- E. None of the above

**MCQ6.** All the following are non-essential amino acids except:

- A. Glycine
- B. Alanine
- C. Arginine
- D. Asparagine
- E. None of the above

**MCQ7.** The three active forms of vitamin A which includes retinol, retinal and retinoic acid are collectively called:

- A. Retinoids
- B. Carotinoids
- C. Retines
- D. Retinoics
- E. None of the above

**MCQ8.** Which of the following factors affect iron absorption?

- A. Body needs
- B. Form of iron
- C. Composition of meal
- D. Acid in stomach
- E. All of the above

**MCQ9.** Zinc deficiency is associated with:

- A. Impaired immune function
- B. Slow wound healing
- C. Mental retardation
- D. A and B
- E. None of the above

**MCQ10.** Which deficiency is characterized by physical dwarfness, mental retardation, thick-dry skin and enlarged protruding stomach?

- A. Myxedema
- B. Keratomalacia
- C. Cretinism
- D. Osteomalacia
- E. Hyperthyroidism



**SECTION B (10 Marks)**

**SAQ11.** Briefly explain the **TWO (2)** types of supplementary feeding programmes. (4 marks)

**SAQ12.** Briefly explain low birth weight as an indicator of nutritional status. (2 marks)

**SAQ13.** State **THREE (3)** key points that may be drawn from the conceptual model of the causes of malnutrition. (3 marks)

**SAQ14.** State **TWO (2)** inhibitors of zinc Absorption. (1 mark)

**SECTION C (40 MARKS)**

**Each question in this section carries TWENTY (20) MARKS. Question number fifteen is compulsory in section C. Choose and answer question number sixteen or seventeen from this section.**

**SAQ15.** Discuss the third Sustainable Development Goal (SDG), explaining its link with nutrition and health. (20 marks)

**SAQ16.** A child presents with the severe wasting, oedema, dermatitis, vitamin A deficiency and stunting, discuss each of these symptoms. (20 marks)

**SAQ17. (a)** Explain **FOUR (4)** contributing risk factors to anaemia. (8 marks)

**(b)** Discuss **SIX (6)** strategies/intervention to curb iron deficiency anaemia in Kenya. (12 marks)