



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR THE DIPLOMA IN COMMUNITY HEALTH AND DEVELOPMENT**

**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER 2018/2019**

**KISUMU CAMPUS**

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**COURSE CODE: AFB 2111**

**COURSE TITLE: INTRODUCTION TO FOOD SECURITY**

**DATE: 14<sup>TH</sup> AUGUST, 2019**

**EXAMS SESSION: 2.00 – 3.30PM**

**TIME: 1.30 HOURS**

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**Instructions:**

- 1. Answer all questions in section A and any other 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**

## SECTION A (30 MARKS)

**Answer all the questions in this section**

1. a) What do you understand by the term “chronic food” insecurity? (2Marks)  
b) State one method of preventing biological contaminants of food (1 Mark)
2. a) What is food insecurity? (2Marks)
3. Mention three short term intervention by the Kenya Government to address the problem of food insecurity (3marks)
4. List and explain three pillars of food security (3 Marks)
5. a) List two diet related non communicable diseases (2 Marks)  
b) What do you understand by the term protein-energy malnutrition? (2 Mark)
6. Using examples name three biological hazards likely to contaminate food. (3 Marks)
7. Using example differentiate between essential and non-essential amino acids? (4 Marks)
8. How can availability of food as a pillar of food security be improved in Kenya? (4 Marks)
9. Name two nutritional disorders likely to be caused by modern feeding habits? (4 Marks)

## SECTION B (30 MARKS)

**Answer any two (2) questions in this section**

1. a) Discuss three factors that determine food quality. (15 Marks)  
b) State five causes of global climate change (5 Marks)
2. a) Discuss five immediate causes of hunger (15 Marks)  
b) State any five impacts of food insecurity (5 Marks)
3. a) Inadequate supply of nutrients leads to deficiencies and interferences with proper functioning of the body. Complete the table below; (10 Marks)

Deficiency	Disease condition	Dietary source
Lack of vitamin C		
Iron deficiency		

- b) Discuss four challenges affecting Dairy Industry in Kenya. (10 Marks)