



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMMUNITY  
HEALTH AND DEVELOPMENT**

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

**KISUMU CAMPUS**

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**COURSE CODE: AFB 3111**

**COURSE TITLE: INTRODUCTION TO FOOD SECURITY**

**DATE: 14/08/2019**

**EXAM SESSION: 9.00 – 11.00 AM**

**TIME: 2 HOURS**

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**Instructions:**

- 1. Answer ALL questions in Section A and Any two questions in Section B**
  - 2. Candidates are advised not to write on question paper**
  - 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**
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## **SECTION A (30 MARKS)**

**Answer all the questions in this section**

1. What do you understand by the term “income-transfer programme” in relation to food security? (2 Marks)
2. Name any three food safety control agencies in Kenya. (3 Marks)
3. State the meaning of the term “chronic food insecurity” and name any 2 Counties in Kenya where this problem is common? (4 Marks)
4. Differentiate between water soluble and fat soluble vitamins. (2 Marks)
5. State 3 functions of proteins in the human body. (3 Marks)
6. Name any (3) parts of a food system. (3 Marks)
7. HIV/AIDS disease is a serious public health concern in Kenya and Sub-Saharan Africa. State two ways in which it worsens food security and one initiative Kenya government has taken to address the problem (3 Marks)
8. State any two Millennium Development Goals and one Sustainable Development Goal that relate to food security. (3 Marks)
9. Using examples name three biological hazards likely to contaminate food. (3 Marks)
10. Mention two major challenges facing livestock rearing in the Arid and Semi-Arid Lands (ASAL) of Kenya and two strategies/measures taken by Kenya Government to address the challenges. (4 Marks)

## **SECTION B. (40 MARKS)**

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

1. a) Discuss three causes of hunger; poverty trap, lack of investment in agriculture and climate and weather as proposed by Food and Agriculture Organization (FAO). (15 Marks)  
b) State any five impacts of food insecurity. (5 Marks)
2. Discuss the following pillars of food security; (20 Marks)  
a) Food access  
b) Food availability
3. a) Discuss four factors that influence food quality. (10 Marks)  
b) Discuss the importance of the agriculture sector to Kenya’s economy . (10 Marks)
4. Discuss food quality and safety issues affecting developing countries with regards to:  
a) Food system (5 Marks)  
b) Food processing industry (5 Marks)  
c) Street foods (5 Marks)  
d) Food control infrastructure and resources (5 Marks)