



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY  
SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN PUBLIC  
& COMMUNITY HEALTH  
1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER 2023/2024  
KISUMU CENTRE**

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<b>COURSE CODE:</b>	<b>AAB 2101</b>
<b>COURSE TITLE:</b>	<b>INTRODUCTION TO FOOD SECURITY</b>
<b>TIME: 2 HRS</b>	<b>APRIL, 2024 EXAM FOR MODERATION</b>

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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)**

1. State when food security is said to exist (3 Marks)
2. a) What is the measure for hunger as defined by FAO (1 Mark)  
b) State any TWO immediate causes of hunger (2 Marks)
3. a). State any THREE factors that cause climate change (3 Marks)  
b). Food availability is a key pillar of food security; describe any TWO ways in which a household can ensure that this pillar is achieved (4 Marks).  
c). State the difference between income poverty and human poverty (4 Marks)
4. What are greenhouse gases? List any THREE greenhouse gases (4 Marks)
5. Pesticides are very common chemical food contaminants on the farm, state THREE methods of preventing them from contaminating food (3 Marks)
6. Explain how the recent desert locust invasion in Northern Kenya is likely to impact on food security (4 Marks)
7. State the meaning of the term “chronic food insecurity” and name any TWO Counties in Kenya where this problem is common (3 Marks)
8. State and explain any THREE social factors that affect food security **(3 Marks)**

### **Section B (40 Marks)**

1. 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)
2. Discuss TWO nutritional challenges and TWO strategies employed by the Kenya Government to address mentioned challenges under the following two stages of life cycle approaches to nutrition improvement.
  - i) Maternal and newborn nutrition (10 marks)
  - ii) Early childhood nutrition (10 marks)

3. (a) Mention any two main types of food contaminants and explain how each can be prevented

(10 Marks)

4. a) Discuss TWO causes of hunger as proposed by Food and Agriculture Organization (FAO) (10 Marks)

b) State and explain any FIVE impacts of food insecurity in Kenya (10 Marks)