



**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
1ST YEAR 1ST SEMESTER 2023/2024 ACADEMIC YEAR
KISUMU**

COURSE CODE: AAB 2101

COURSE TITLE: INTRODUCTION TO FOOD SECURITY

TIME: 2 HRS

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: Answer ALL questions (30 Marks)

1. Define the following terms;
 - a) Income poverty (1 Mark)
 - b) Human poverty (1 Mark)
 - c) Malnutrition (1 Mark)
2. Name any THREE food safety control agencies in Kenya (3 Marks)
3. Explain THREE possible effects of desert locust invasion to food security. (3 Marks)
4. State the meaning of the term “Chronic Food Insecurity” and name any TWO counties in Kenya where this problem is common (3 Marks)
5. Mention THREE practical long term interventions that can be used by developing countries to address the problem of food insecurity (3 Marks)
6. State any TWO immediate causes of hunger (2 Marks)
7. State any THREE factors that cause global climate change (3 Marks)
8. Lack of vitamin C (Ascorbic Acid) leads to a disease condition known as scurvy. As a community health worker, name ONE plant and two animal food products that you can advise community members to include in their diets to curb this problem. (3 Marks)
9. State 3 functions of proteins in the human body. (3 Marks)
10. (a) Name any TWO parts of a food system (2 Marks)
(b) Differentiate between protein-energy malnutrition and micronutrient malnutrition. (2Marks)

Section B: Answer any TWO questions (40 Marks)

1. (a) Discuss the impact of the recent Covid-19 pandemic on food security in Kenya (10 Marks)
(b) Flood has become a common disaster in nontraditional flooding areas in Kenya such as Narok and Mandera counties mainly due to climate change. Discuss three methods that these county governments can put in place to counter this problem (10 Marks)
2. (a) Mention any TWO main types of food contaminants and explain how each can be prevented from contaminating food (10 Marks)
(b) Explain how poverty trap and lack of investment in agriculture can cause hunger. (10 Marks)
3. (a) Discuss Food Availability pillar of food security (10 Marks)
(b) Food price instability has been identified as a major obstruction to smallholder productivity growth and food security, discuss. (10 Marks)

