



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

PUBLIC HEALTH/COMMUNITY HEALTH AND DEVELOPMENT

1ST YEAR 1ST SEMESTER 2024/2025 ACADEMIC YEAR

MAIN/KISUMU CAMPUS

COURSE CODE: AAB 2101

COURSE TITLE: INTRODUCTION TO FOOD SECURITY

EXAM VENUE: STREAM: BSc Public/ Comm. Hlth & Dev

DATE: EXAM SESSION:

TIME: 2.00 HOURS

Instructions:

- 1. Answer all the questions in Section A and 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

1. Define the following terms;
 - (i) human poverty
 - (ii) undernourishment (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 suggest any TWO ways to address this problem. (3 Marks)
4. Mention THREE short term interventions by the Kenya Government to address the problem of food insecurity (3 Marks)
5. Describe conditions when food security is said to exist (3 Marks)
6. What do you understand by the term blanching? (3 Marks)
7. State any THREE immediate causes of hunger (2 Marks)
8. State any three factors that cause global climate change (3 Marks)
9. Name any ONE plant and any TWO animal food products that you can advise community members to include in their diets to curb scurvy (3 Marks)
10. State THREE functions of proteins in the human body. (3 Marks)
11. Name any TWO parts of a food system (2 Marks)

Section B

1. (a) Discuss food quality and safety issues affecting developing countries with regards to:
 - (i) Street foods (5 Marks)
 - (ii) Food processing industries (5 Marks)(b) Climate change is a major challenge to food security in Kenya, with rising temperatures, droughts, and floods affecting agricultural productivity and food availability. Discuss the following TWO strategies that can be used to comprehensively address climate change and ensure food security in Kenya:
 - (i) Promote climate-smart agriculture. (5 Marks)
 - (ii) Encourage sustainable land management (5 Marks)
2. Discuss TWO nutritional challenges and TWO strategies employed by the Kenya Government to address these challenges under the following 2 stages of life cycle approaches to nutrition improvement; (20 Marks)
 - 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)
(b) Explain how cash crop dependence and lack of investment in agriculture can cause hunger. (10 Marks)
4. Discuss the following pillars of food security:
 - a) Food access (10 Marks)
 - b) Food availability (10 Marks)