



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

**UNIVERSITY EXAMINATION FOR THE DIPLOMA OF COMMUNITY
HEALTH AND DEVELOPMENT**

Main Campus

Course Code : HDC 2111
Course Title : INTRODUCTION TO FOOD SECURITY
Exam Venue :
Stream : Year 1 Semester 1
Date :
Exam session : Time: 1.30 hrs

INSTRUCTION

- 1. Answer all questions in section A (compulsory carrying 30 marks) and any other two questions in section B (20 marks each).**
- 2. Candidates are advised not to write on the question paper and all phones must be off.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the exams room.**

SECTION A

- 1 Define; food security (2Marks)
- 2 State any four mineral deficiency diseases and their causes. (4marks)
- 3 which are the two immediate causes of malnutrition? (2Marks)
- 4 List four functions that should be considered in understanding human reactions to color in foods (4 Marks)
- 5 Discuss the relationship between food and population. (2 marks)
6. Define (1 mark each)
 - i. Nutritional security
 - ii. Malnutrition
 - iii. Food pyramid
 - iv. Food safety
 - v. Vulnerability
 - vi. Food processing
- 7 Mention three causes of food insecurity (3Marks)
8. Give four benefits of processing food (2Marks)
9. List the performance parameters when designing processes for the food industry (2Marks)
10. Mention any two micronutrients that the body requires to function normally (2Marks)
13. Give two diets related non communicable disease (2mark)
14. Write in full. (1Mark)
 - a. ASAL
 - b. USDA

SECTION B

1 Discuss the life cycle approach to nutrition improvement in Kenya. (20 Marks)

2 Discuss the rules of safe food handling that one needs to apply in order to remain healthy. (20 Marks)

3 Write short notes on some of the factors that determine food quality. (20 Marks)