

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURAL AND FOOD SCENCES

FIRST SEMESTER FIRST YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SECURITY 2020/2021 ACADEMIC YEAR

COURSE CODE: AAB 2101

COURSE TITLE: Introduction To Food Security

EXAM VENUE: STREAM: (BSc. Food Security)

DATE: EXAM SESSION:

TIME: 2HOURS

Instructions:

- 1. Answer ALL questions in Section A (compulsory) and ANY TWO 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]

Answer ALL questions in this section

- 1. State:
 - a. One nutritional benefit of pumpkin seeds. [1mark]
 - b. The nutritional benefit of zinc. [2 marks]
 - c. Give three examples of low-nutrient foods. [6marks]
- 2. Table 1: Complete the following table.

[9marks]

Nutrient	Food Source	Effect of deficiency (or lack of it)
Vitamin A		
Vitamin C		
Nicotinic acid		
Folic acid		
Calcium		
Iron		

- 3. Enumerate three different levels of physical activity in relation to total number of calories a person needs each day. [3marks]
- 4. Explain this statement in relation to food security:" What we see in the grocery store is a VULNERABLE perfection". [5marks]
- 5. What could be the effect of food insufficiency, when and where it is scarce? [4marks]

SECTION B: [40 MARKS]

Answer ANY TWO questions from this section

- 6 .i). Differentiate between food self-reliance and self-sufficiency strategies for attaining food security. [8marks]
- ii). Enumerate the five categories of foods.
- iii). Give three examples of animal protein foods. [3marks]
- iv). What are anti-toxidants and phytophenols. [4marks]
- 7.i). Why are some foods called energy foods?

[6marks]

[5marks]

ii). Despite oils and fats being the best energy foods, what is their biggest disadvantage?

[5marks]

iii). What is basal metabolic rate (BMR)?

[3marks]

iv). Explain how the right to food is protected.

[6marks]

8.i). Provide a detailed analysis of the following statement: Food security is a condition related to the supply of food and individuals' access to it for normal growth and development and an active and healthy life. [6marks]

ii). How does the above differ from the definition according to UN (2000)?

[8marks]

iii). Explain the following: individual or household food security.

[6marks]