

# JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

### FIRSTYEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR

#### THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SECURITY

#### 2021/2022 ACADEMIC YEAR

**COURSE CODE: AAB 2101** 

COURSE TITLE: INTRODUCTION TO FOOD SECURITY

EXAM VENUE: STREAM: BSC. FOOD SECURITY

DATE: EXAM SESSION:

**TIME: 2 HOURS** 

#### **Instructions:**

- 1. Answer ALL questions in section A and ANY other 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 from this Section.

1.	Give the meaning of the following terms used in food security	
	(a) Food security	( 1 mark)
	(b) Malnutrition	( 1 mark)
	(c) Food safety	( 1 mark)
	(d) Safety net programmes	( 1 mark)
2.	(a) What do you understand by the term "hunger"?	(2marks)
	(b) Briefly explain why hunger can lead to malnutrition and why the absence of	
	hunger does not imply the absence of malnutrition	(4 marks)
3.	Explain the following pillars/components of food security a) Food availability b) Food Accessibility c) Food Utilization d) Food system stability	(2 marks) (2 marks) (2 marks) (2marks)
4.	(a) Identify the <b>six</b> most vulnerable groups to food insecurity, give think they are more vulnerable	ing reasons why you (3marks)
	(b) Give <b>three</b> clinical symptoms for each of the following	
	(i) Kwashiorkor	(3marks)
	(ii) Marasmus	(3marks)

5. In what ways do cultural beliefs influence the food security of a community? (3 marks)

## <u>SECTION B [30 Marks]</u> Answer ANY TWO questions from this Section.

- 6. (a) Malnutrition is associated with food insecurity and can also relate to non-food factors. Discuss (10 Marks)
  - (b) Coping Strategy Index (CSI) is one of the indicators for assessing the food insecurity of a community. Giving examples, discuss the **four** categories of food insecurity Coping Strategies (10 Marks)
- 7. Marsabit County in Kenya has reported serious cases of food insecurity and child malnutrition. Assume you have been appointed as a Food security expert in the County and charged with the responsibility of identifying feasible food security projects for funding in the region. Discuss **ten** priority projects that you

will recommend illustrating clearly their contribution to food security(20 marks)

- 8. (a) Briefly discuss five current major threats to global food security (10 marks)
  - (b) Describe **five** possible strategies that you can recommend to the government of Kenya for implementation towards improving food security (10 marks)
- 9. (a) State the major principles of food handling (4 marks)
  - (b) Discuss why food processing and food preservation are important in ensuring food security (16 Marks)