



# MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES

DEPARTMENT OF AGRICULTURAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT AND TRADE

AGB 402: FOOD AND NUTRITION SECURITY

DATE: 24/8/2022

TIME: 2.00-4.00 PM

---

**INSTRUCTIONS:** Answer question ONE and any other TWO questions

## QUESTION ONE (30 MARKS)

- a) Define the following terms as used in food and nutritional security
  - i. Food security (2 marks)
  - ii. Malnutrition (2 marks)
- b) Describe the connection between poverty and hidden hunger (4 marks)
- c) With examples, explain five strategies that can promote nutrition-sensitive food systems (5 marks)
- d) Describe three reasons why the government of Kenya should perform periodic food security assessments (6 marks)
- e) Describe three ways in which food safety risks can burden the economy (6 marks)
- f) Explain five causes of food price volatility in Kenya for the last 10 years (5 marks)

## QUESTION TWO (20 MARKS)

- a) Describe five strategies that can improve agricultural market functionality in order to improve nutritional outcomes (10 marks)

- b) In developing countries, food safety along agricultural supply chains is an emerging debate.
- i. Describe five agricultural-related food safety risks that have an impact on supply chains (5 marks)
  - ii. Describe the corresponding strategies for addressing the food safety risks raised in b(i) above (5 marks)

**QUESTION THREE (20 MARKS)**

- a) Describe the main components of sustainable food systems, using applicable examples (10 marks)
- b) The county government of Marsabit plans to identify food insecure households affected by chronic drought. Describe five approaches of assessing food insecurity that you would recommend for this assignment (10 marks)

**QUESTION FOUR (20 MARKS)**

- a) Explain the four pillars of food and nutrition security using suitable examples and illustrations. (10 marks)
- b) Assume you're a food policy advisor in West Pokot County, where a severe drought has lasted for the past 12 months.
- i. Identify five groups of people who are most prone to chronic food insecurity in the county and explain why (5 marks)
  - ii. Describe five coping mechanisms that the communities in b(i) above could employ to address the problems of chronic food insecurity (5 marks)

**QUESTION FIVE (20 MARKS)**

- a) Explain five strategies to make food security sustainable at both national and global levels (10 marks)
- b)
  - i. Describe five global challenges facing agriculture and food security (5 marks)
  - ii. Explain five interventions to address challenges mentioned in b(i) above (5 marks)

