



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## University Examinations 2024/2025

### FIRST YEAR THIRD SEMESTER EXAMINATION FOR THE DIPLOMA IN AGRICULTURE

#### AAD 2304: FOOD SECURITY

DATE: DECEMBER 2024

TIME: 1½ HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

#### QUESTION ONE (30 MARKS)

- a) Define the following terms:
- i) Food security (3 marks)
  - ii) Hunger:. (3 marks)
  - iii) Malnutrition: (3 marks)
  - iv) Food insecurity:. (3 marks)
- b) Discuss the steps involved in digestion. (8 marks)
- c) Explain the two types of digestion (4 marks)
- d) Discuss six factors that affect food stability (6 marks)

#### QUESTION TWO (15 MARKS)

- a) Discuss three population groups vulnerable to food insecurity. (9 marks)
- b) Discuss six factors that affect food utilization especially at a household level (6 marks)

### **QUESTION THREE (15 MARKS)**

- a) Explain the factors that influence food security at the following levels:
  - i) National level (5 marks)
  - ii) Community level (4 marks)
  - iii) Individual Level (4 Marks)
- b) Differentiate between morbidity and mortality. (2 Marks)

### **QUESTION FOUR (15 MARKS)**

- a) Discuss three types of metabolism. (6 marks)
- b) State five ways of improving your metabolism (5 marks)
- c) State two advantages of knowing your metabolism type (4 marks)