



*"Investing in Africa's future"*

**COLLEGE OF HEALTH AGRICULTURE AND NATURAL SCIENCES**

**NAHC 402: VEGETABLE PRODUCTION  
END OF FIRST SEMESTER EXAMINATION**

**NOVEMBER 2025**

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**DURATION: 3 HRS**

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**INSTRUCTIONS**

Answer all questions in Section A and any **three** from Section B

Section A carries **40 marks** and each question in Section B carries **20 marks**.

**Materials: Calculator**

**SECTION A (Answer ALL Questions in this Section)**

**QUESTION ONE**

- a). Define the following terms as used in vegetable production:
- i. A vegetable. (2 marks)
  - ii. Monocropping. (2 marks)
  - iii. Crop rotation. (2 marks)
  - iv. Hardening off. (2 marks)
  - v. Transplanting. (2 marks)
- b). Briefly explain the importance of vegetable production in Sub-Saharan Africa (10 marks).
- c). Describe symptoms of bacterial wilt in tomatoes. (5 marks)
- d). Explain how market demand influences the choice of vegetable crops to grow. (5 marks)
- e) Describe three characteristics of a healthy vegetable seedling. (4 marks)
- f). Describe the steps involved in land preparation for cabbage cultivation. (6 marks)

**SECTION B (Answer any Three Questions from this section)**

**QUESTION TWO:**

Using the following vegetable crops: tomatoes, cabbages, onions, sweet potatoes, and cucumber, design a seasonal cropping calendar suitable for an agroecological zone in Southern Africa. (20 marks)

**QUESTION THREE**

- a. Analyze the impact of climate change on vegetable production in sub-Saharan Africa. (12 marks)
- b. Suggest adaptive strategies for small holder farmers to question 3a. (8 marks)

**QUESTION FOUR**

Discuss the merits and demerits of outdoor vegetable production system using a case study of Sub-Saharan Africa. (20 marks)

**QUESTION FIVE**

Vegetables are commonly classified based on the part of the plant that is consumed. Discuss the classification of vegetables according to their edible plant parts, providing relevant examples for each category. (20 marks)

**QUESTION SIX**

Critically analyze the role of smart agriculture in transforming vegetable production systems in sub-Saharan Africa. (20 marks)

***END OF EXAMINATION PAPER***