



“Investing in Africa’s future”
COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

Paper one

COURSE TITLE: NAHC 402: VEGETABLE PRODUCTION

END OF FIRST SEMESTER EXAMINATIONS

DATE: NOVEMBER/DECEMBER 2023

LECTURER: Mr. MTAITA T A.

DURATION: 3HRS

INSTRUCTION

Choose and answer *Four* Questions

Question One

- a) Discuss the four main principles in vegetable production. [10]
- b) Using tomato as an example, analyze the practices necessary for high quality tomato fruit production and marketing [15]

Question Two

- a) Scrutinize the classification of vegetable crops [10]
- b) Analyse the future of the vegetable production practices that have developed as a result of rapid urbanization and changes in socioeconomic and political situations. [15]

Question Three

- a) Discuss the factors determining vegetable nursery location. [10]
- b) Analyse the necessary operations in maximizing vegetable production. [15]

Question four

Discuss the cultivation of Garlic restricting your response to:

- i. Cultivars, [2]
- ii. Climate and soil requirements [3]
- iii. When and how to plant [5]
- iv. Planting material [5]
- v. Harvesting and storage [5]
- vi. Insect pests and diseases. [5]

Question Five

- a) Develop a vegetable rotation plan/system over a period of 4 years for one [1] ha soil for the cultivation of: tomatoes, eggplant, cauliflower, Cabbage, beetroot, green beans and sweet potatoes [10]
- b) Analyze the key considerations for potato (*Solanum tuberosum*) production. [15]

Question six

Discuss the strengths and weaknesses for each of the following practices in vegetable production

- i. Fertigation, [5]
- ii. Transplanting, [5]
- iii. Green house production, [5]
- iv. Home gardening, and Rotations. [5]