



*“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**

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**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]**