



(Knowledge for Development)

# KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER

MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN; AGRICULTURE  
AND BIOTECHNOLOGY, AGRICULTURE ECONOMICS AND  
NATURAL RESOURCE MANAGEMENT

COURSE CODE: ACR 311

COURSE TITLE: HORTICULTURE

DATE: 6<sup>TH</sup> DECEMBER 2023

TIME: 2 – 4 PM

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## INSTRUCTIONS TO CANDIDATES

Answer Question One and Any other TWO (2)

TIME: 2 Hours

This Paper Consists of 2 Printed Pages. Please Turn Over. 

KIBU observes ZERO tolerance to examination cheating

**QUESTION ONE: (COMPULSORY)****(30 MKS)**

- a) Define the following terms in horticulture (2 MARKS)
- i. Horticulture (2 MARKS)
  - ii. Floriculture (2 MARKS)
  - iii. Olericulture (2 MARKS)
  - iv. Pomology (2 MARKS)
  - v. Vegetable (4 MARKS)
- b) Describe the TWO types of planting as applied in horticulture
- c) Write short notes about the following vegetable types; (4 MARKS)
- i. Indigenous vegetables (4 MARKS)
  - ii. Exotic vegetables
- d) Outline FOUR factors that determine the location of a nursery bed in horticulture (8 MARKS)

**QUESTION TWO**

- a) Outline ANY FIVE types of packaging materials used in handling horticultural products. (10 MARKS)
- b) Classify vegetables according to the criteria of 'the part consumed'. (10 MARKS)

**QUESTION THREE**

Describe the requirements for growing Tuber vegetables (potato or white/irish/english potato (*Solanum tuberosum* L.)) under the following sub-topics;

- i. Field Establishment (5 MKS)
- ii. Field maintenance (5 MKS)
- iii. One Example of diseases and General disease control strategies (5 MKS)
- iv. Harvesting (5 MKS)

**QUESTION FOUR**

Describe FOUR major channels through which horticultural farm products could be marketed, giving advantages and disadvantages in each case. (20 MARKS)

**QUESTION FIVE**

Describe the following methods of vegetative propagation, giving advantages and disadvantages of each. (10 MARKS)

- i. Grafting (10 MARKS)
- ii. Budding