

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF MASTER OF SCIENCE IN  
HORTICULTURE**

**HORT 831: ADVANCES IN VEGETABLES CROPS**

**STREAMS: MSC HORT YIS1**

**TIME: 3 HOURS**

**DAY/DATE: TUESDAY 5/10/2021  
A.M**

**8.30 A.M – 11.30**

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**INSTRUCTIONS**

1. The paper contains section A and B
2. ANSWER ALL PAPERS IN SECTION A and any two from section B
3. Marks from each question are indicated in parenthesis ()
4. Total marks = 60

**SECTION A TOTAL MARKS 20**

**QUESTION ONE**

- (a) Describe the various types of vegetable production systems in Kenya. [5 marks]
- (b) There are different ways of classifying vegetable crops that share some characteristics. Using relevant examples broadly classify the vegetable crops based on culture. [5 marks]

**QUESTION TWO**

- (a) Briefly discuss the sensory characteristics that influence the quality of vegetable crops. [5 marks]
- (b) Describe the types of interactions that can be found between two species of vegetable crops in an intercrop. [5 marks]

**SECTION B (40 MARKS)**

**QUESTION THREE**

Discuss internal and external factors that contribute to post harvest losses between harvesting and marketing of vegetable produce.

[20 marks]

**QUESTION FOUR**

(a) Explain the stages of vegetable seed germination. [10 marks]

(b) Explain various methods used to determine the maturity of vegetable crops.

[10marks]

**QUESTION FIVE**

Define consumptive use of water (CUW) and discuss the factors that influence consumptive use of water by vegetable crops.

[20 marks]

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