

CHUKA

UNIVERSITY



UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE IN HORTICULTURE

HORT 434: HERBS AND SPICES

STREAMS: BSc. HORT (Y4S2)

TIME: 2 HOURS

DAY/DATE: MONDAY 14/04/2025

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS

- Answer ALL questions in Section A and any other Two questions in Section B
- Do not mix up answers

SECTION A (TOTAL 30 marks) ANSWER ALL QUESTIONS

1. Briefly explain how herbs are classified based on taste. (5 marks)
2. Explain the utilization of herbs and spices. (5 marks)
3. a Discuss the main steps in processing of black pepper. (6 marks)
b. Briefly explain the post-harvest handling of Garlic. (4 marks)
4. a Describe important flavor compounds in spices. (5 marks)
b. Describe the major uses of Rosemary. (5 marks)

SECTION B (TOTAL 40 marks) ANSWER TWO QUESTIONS

5. Write notes on the following topics:
 - a. Soil and fertilizer requirements of Ginger (*Zingiber officinale*). (12 marks)
 - b. Coriander varieties grown in Kenya. (8 marks)
6. Briefly explain on the following topics:

a. Processing of Vanilla (*Vanilla fragrans*). (12 marks)

b. Ecological Requirements of Vanilla. (8 marks)

7. Describe the symptoms and control measures of the following:

a. Leaf miner in Cinnamon (*Conopomorpha civica*). (10 marks)

b. Powdery mildew of Mint. (10 marks)

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