

CHUKA



UNIVERSITY

## UNIVERSITY EXAMINATIONS

### FOURTH YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE

HORT 434: HERBS AND SPICES

STREAMS:

TIME: 2 HOURS

DAY/DATE: MONDAY 20/09/2021

11.30 A.M – 1.30 P.M

---

#### INSTRUCTIONS

- Answer all questions in section A and any two in section B

1. (a) Define the term herbs and spices. [2 marks]  
(b) Discuss (4) ways of classification of spices. [8 marks]
2. Describe the advantages of value added spice products. [6 marks]
3. Describe the following value added products.  
(i) Curry powder [3 marks]  
(ii) Consumer packed spices [3 marks]
4. Describe health benefits of herbs and spices. [5 marks]

#### SECTION B

5. (a) Discuss black pepper production under the following sub headings.  
(i) Shade management [6 marks]  
(ii) Liming [6 marks]  
(b) Discuss cardamom production under the climate and soil requirements.

[8 marks]

6. (a) Discuss cardamom production under the climate and soil requirements.

[8 marks]

(i) Harvesting [5

marks]

(ii) Curing [6 marks]

(b) Discuss vanilla production under the following sub headings;

(i) Pollination [6

marks]

(ii) Products of vanilla [3 marks]

7. Discuss harvesting and processing of cinnamon under the following sub headings.

(i) Peeling [5 marks]

(ii) Rolling [5 marks]

(iii) Piping [5 marks]

(iv) Health benefits of cinnamon [5 marks]

---