

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

HORT 443: BEVERAGES, NUT AND MEDICINAL CROPS

STREAMS: BSC. Hort

TIME: 2 HOURS

DAY/DATE: FRIDAY 12/4/2024

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

Label your answer clearly

Don't mix up answers

ANSWER ALL QUESTION IN SECTION A AND ANY TWO IN SECTION B

SECTION A

1. (a) Describe the planting hole mixture when establishing the beverages and nut crops. (4 marks)
- (b) Write short notes on Ruiru 11 as an improved variety of coffee. (5 marks)

2. Discuss *Armillaria root rot* as an important disease in tea production including-
 - i) Causal agent (2 marks)
 - ii) How it enters the root (3 marks)
 - iii) Control (3 marks)

3. (a) Outline five key important steps in macadamia establishment from seeds.(5 marks)
- (b) Why it is not necessary to apply any organic or inorganic fertilizers when establishing macadamia plants. (2 marks)

4. List six types of esters found in pyrethrum. (6 marks)

SECTION B

5. (a) Briefly discuss formative pruning as a method of frame formation in tea production. (8 marks)

- (b) Discuss the industrial processing of cashew nut. (12 marks)
- 6. (a) Differentiate between the typical and nana type of coconut. (6 marks)
- (b) Discuss uncapped tree system as a method used in coffee pruning, indicating its advantages and disadvantages. (14 marks)
- 7. Discuss different factors that affecting pyrethrin content in pyrethrum production. (20 marks)

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