CHUKA



UNIVERSITY EXAMINATIONS

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

HORT 443: BEVERAGES, MEDICINAL AND NUT CROPS

STREAMS: TIME: 2 HOURS

DAY/DATE: TUESDAY 21/09/2021 11.30 A.M. – 1.30

P.M.

INSTRUCTIONS:

- The paper contains section A and B
- Answer all questions in section A and any TWO from section B
- Marks for each question are indicated in parenthesis ()
- Total marks = 70

SECTION A: (30 MARKS)

- a) describe the process of decaffeination of coffee. (5 marks)
 - b) Differentiate between C. arabica (arabica) and C. canephora (robusta) coffee.

(4 marks)

- a) Explain at least four methods that can be used in tea harvesting/plucking. (4 marks)
 - b) Explain how sweltering is done during tea processing. (3 marks)
- a) Explain why pyrethrum pesticides are more preferred to use that other chemicals.

(5 marks)

| | b) Describe training and pruning of young cashew nut trees. | (3 marks) |
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| 4. | a) Differentiate <i>pollarding</i> and <i>Coppicing</i> . marks) | (3 |
| | b) Explain the use and economic importance of coconut. marks) | (3 |
| SECT | ION B (40 MARKS) | |
| 5. | Discuss climate change impacts on beverage crops production wit reference to tea and suggest adaptation and mitigation strategies. (20 marks) | h special |
| 6. | a) Describe how top working is done in coffee and macadamia trees, and state | |
| | the advantages of top working. marks) | (10 |
| | b) Briefly discuss harvesting and post-harvest management of coomarks) | oa. (10 |
| 7. | a) Discuss in brief in vitro propagation of pyrethrum.b) Describe the ecological requirements of Cinchona (Cinchona pumarks) | (10 marks) <i>ubescens</i>) (10 |
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