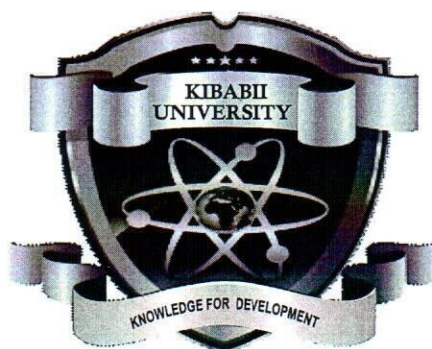


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(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

SECOND YEAR 2ND SEMESTER MAIN EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE
EDUCATION AND EXTENSION**

COURSE CODE: ACR 223
COURSE TITLE: PERENNIAL CROPS

DATE: 13TH APRIL 2023

TIME: 9 – 11 AM

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

1. (a) Differentiate between the following:

(i) Fine and coarse plucking of Tea (*Camellia sinensis*) (5 marks)

(ii) Wet and dry processing of Coffee (*Coffea spp.*) (5 marks)

(b) A farmer was advised to use NPKCaMgS (16:36:12:8:4:4) as basal application and 200 kg of CAN (26 % N) for top dressing on his 3-acre Tea crop in Nyamira County.

(i) How much fertilizer (in 50 kg bags) did he purchase for basal application if the recommended rate was 72 kg/ha P₂O₅? (4 marks)

(ii) What was the application rate (kg/ha) of potash? (4 marks)

(iii) How much total Nitrogen (N) was applied on the crop? (6 marks)

(iv) How much Ca, Mg and S was applied per Ha? (6 marks)

2. Describe the assessment of Sugarcane (*Saccharum officinarum*) quality and highlight the factors affecting the cane quality. (20 marks)

3. You visited a Tea (*Camellia sinensis*) factory in Vihiga County to appreciate the recommended processing practices. Write your report based on the key aspects learned. (20 marks)

4. Discuss the field management and economic importance of Sisal (*Agave sisalana*) production in Kenya. (20 marks)

5. Pruning is a key management practice in Coffee (*Coffea spp.*). Describe this practice and explain its importance. (20 marks)