



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2021 / 2022 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: PERRENIAL CROPS

DATE: 10TH MAY 2022

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) (i) As a Line Manager in Sisal (*Agave sisalana*) production describe the recommended post-harvest practices to ensure quality products for the market. (5 marks)
(ii) List five (5) morphological features that can aid the identification of sugarcane varieties. (5 marks)
- (b) Briefly explain the value of Cashew (*Anacardium occidentale*) and Coconut (*Cocos nucifera*) to a commercial producer. (10 marks)
- (c) A farmer applied 450 kg of NPK 12:38:16 as basal application and 300 kg of CAN (26 % N) for top dressing on his 5-acre sugarcane crop in Naitiri, Bungoma County.
 - (i) How much Nitrogen (in kg/ha) was applied to the crop? (4 marks)
 - (ii) What was the application rate (kg/ha) for phosphate and potash? (4 marks)
 - (iii) Explain the choice of NPK and CAN fertilizers. (2 marks)
2. Discuss the economic importance of Macadamia (*Macadamia tetraphylla*) production in Kenya. (20 marks)
3. You visited a Tea (*Camellia sinensis*) growing Estate in Kericho to appreciate the recommended field management practices. Write your report based on the key aspects learned. (20 marks)
4. Discuss the methods of harvesting and processing of Coffee (*Coffea spp.*) in Kenya and highlight the merits and demerits in each case. (20 marks)
5. Cultivated crops have undergone an evolutionary process resulting in their domestication. Discuss. (20 marks)