



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

FOURTH YEAR 1ST SEMESTER MAIN EXAMINATION

**FOR THE DEGREE OF BACHELOR OF AGRICULTURE AND
BIOTECHNOLOGY**

COURSE CODE: SAB 411

COURSE TITLE: AGRICULTURAL SYSTEM NUTRIENT
MANAGEMENT

DATE: 22ND JULY 2021

TIME: 9AM – 11 AM

INSTRUCTIONS TO CANDIDATES

Answer question ONE and any other Two.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

- Q1. a) Differentiate between bio intensive and alternative farming. (2 marks)
b) Describe any TWO types of nutrient flow balance in a farming system. (4 marks)
c) State the deficiency symptom of Magnesium (Mg) nutrient. (2 Marks)
d) Briefly explain the weakness of using symptoms to determine deficiencies in plants. (3 marks)
e) Explain ways through which plant roots take nutrients from the soil. (3 marks)
f) Discuss the various combinations of agroforestry systems. (6 marks)
g) Explain how Kenya's Ministry of Agriculture policy on nutrient management is designed to achieve sustainable farming. (10 marks)
- Q2. Discuss how conservation agriculture can help reduce nutrient outflow from farms in the high rainfall areas. (20 marks)
- Q3. Discuss the strategies of nutrient management in the tropics. (20 marks)
- Q4. Explain the benefits of agroforestry in a farming system. (20 marks)
- Q5. Elaborate the best practices in tree nursery management. (20 marks)