



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

FIRST YEAR 1ST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

COURSE CODE: ACR 111 / *SAB 101.*
COURSE TITLE: AGRICULTURAL BOTANY

DATE: *10/02/2021.* **TIME:** *8-10 AM.*

INSTRUCTIONS TO CANDIDATES

Answer Questions 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) List FIVE differences and FIVE similarities between angiosperms and gymnosperms (5 marks)
(b) List any FIVE effects of high temperature stress on growth and grain yield in maize (5 marks)
(c) Briefly explain FIVE factors affecting transpiration in plants (5 marks)
(d) Briefly describe FIVE types of roots modified for food storage and in each case give **an example** of the crop (5 marks)
(e) Identify the class, order, family, genus and species of Finger millet and Cassava (5 marks)
(f) Explain the terms Osmosis and Transpiration in plant physiology (5 marks)
2. (a) Describe the morphological features of maize and common beans (10 marks)
(b) Briefly describe the economic importance of maize and beans in Kenya (10 marks)
3. Describe step by step the mechanism of water and salt absorption in a living plant (20 marks)
4. Leaves of many plants are modified to perform specialized functions. List FIVE leaf modification and describe the functions of each modification. (20 marks)