



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR

FIRST YEAR 1ST SEMESTER
SPECIAL/SUPPLEMENTARY EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

COURSE CODE: ACR 111
COURSE TITLE: AGRICULTURAL BOTANY

DATE: 30TH SEPTEMBER 2021 **TIME:** 11AM – 1 PM

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) Define the following terms; (6 marks)
(i) Prokaryotic cells (ii) eukaryotic cells (iii) evergreen (2 marks)
- (b) (i) Explain how lichens are formed (2 marks)
(ii) State the commercial value of some lichens (2 marks)
- (c) With specific reference to blue-green algae;
(i) List two ways in which the algae are similar to bacteria and two ways they are different. (4 marks)
(ii) List two species of blue-green algae (2 marks)
(iii) State four harmful effects of fungi (4 marks)
- (d) (i) Identify five members of the family Poaceae (5 marks)
(ii) Which modifications of leaves enable a plant to survive in arid conditions? (5 marks)
2. Exhaustively discuss root and stem modification in angiosperms giving examples. (20 marks)
3. State the distinguishing features between angiosperms and gymnosperms and explain the economic importance of plants of these two groups. (20 marks)
4. Explain the economic importance of fungi giving appropriate examples (20 marks)
5. Mention five plant families of agricultural significance and exhaustively explain giving examples (20 marks)