



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

FIRST YEAR 1ST SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

COURSE CODE:

ACR 111

COURSE TITLE:

AGRICULTURAL BOTANY

DATE: 18/02/20

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) (i) Bryophytes are referred to as 'amphibians of the plant kingdom. Explain (3 marks) (ii) State the significance of fungi in the brewing and baking industries (2 marks) (ii) Give five reasons why the study of agricultural botany is relevant today (5 marks) (i) State two aspects of economic importance in the family Musaceae (2 marks) (b) (ii) Mention three types of modified stem in angiosperms (3 marks) (iii) Explain the meaning of the word gymnosperm (3 marks) (iv) List two examples of pteridophytes (2 marks) Differentiate between the following: (c) (2 marks) (i) seed and spore (ii) cytoplasm and vacuole (2 marks) (iii) cytoplasm and protoplasm (2 marks) (iv) bulb and tuber (2 marks) (v) secondary and adventitious root (2 marks) 2. Recent estimates show that nearly half the world's productivity that is carbon fixation, comes from the oceans. Discuss this statement in view of the economic importance of algae. (20 marks) 3. The grass family (Gramineae or Poaceae) is widely distributed throughout the world. The family is of greater importance than any other plant family. Discuss (20 marks) 4. Based on the number of ovaries and the number of flowers involved in the fruit formation. fruits are classified into three major groups. Explain (20 marks) 5. Write brief notes on the following plant families of agricultural significance (20 marks) (b) Compositae (c) Malvaceae (d) Cruciferae (a) Leguminosae (e) Solanaceae

