



*(Knowledge for Development)*

**KIBABII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**  
**2020/2021 ACADEMIC YEAR**

**SECOND YEAR 2ND SEMESTER**  
**SPECIAL/SUPPLEMENTARY EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE**  
**EDUCATION AND EXTENSION**

**COURSE CODE:** ACR 222/SAB 234/236

**COURSE TITLE:** ANNUAL CROPS

**DATE: 18<sup>TH</sup> JANUARY 2022**

**TIME: 8 – 10 AM**

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**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) Maize (*Zea mays*) can be classified as a cereal, fodder and oil crop. Explain. (3 marks)
- (ii) Give seven causes of crop yield decline in Kenya. (7 marks)
- (b) (i) State five disease management approaches in Rice (*Oryza sativa*) (5 marks)
- (ii) Name five rain fed rice cultivars in Kenya? (5 marks)
- (c) A farmer has planned to crop 0.65 hectare (Ha) of land under Beans (*Phaseolus vulgaris*) in Bomet. The recommended fertilizer application rate at planting is 30 kg  $P_2O_5$  per Ha and 55 kg N per Ha at top dressing. Calculate the quantity of fertilizer (bags) he will purchase if his source is:
- (i) DAP 18:46:0 at planting. (3 marks)
- (ii) CAN 21% N at top dressing. (3 marks)
- (iii) How much total Nitrogen (N) in kg will the crop receive. (4 marks)
2. Exhaustively describe the salient field production practices in Rice (*Oryza sativa*). (20 marks)
3. Discuss the significance of agricultural liming in annual crops production in Kenya. (20 marks)
4. State and clearly explain the factors that will determine the choice of your crop production enterprise in Kenya (20 marks)
5. Explain in detail the effect of ecological factors on Maize production in Kenya. (20 marks)