



*(Knowledge for Development)*

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

**THIRD YEAR 1ST SEMESTER**  
**MAIN EXAMINATIONS**

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

**COURSE CODE:** ACR 312

**COURSE TITLE:** PASTURE AND FODDER CROPS

**DATE:** 14<sup>TH</sup> JULY 2021

**TIME:** 9AM – 11 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

**Question 1.**

(a) Distinguish between the following terms used in pasture and fodder crops management.

- (i) Animal Unit (AU) and Livestock Unit (LU) (2 marks)
- (ii) Browse and Herb (2 marks)
- (iii) Fodder and Forage (2 marks)
- (iv) Silage and Soilage (2 marks)
- (v) Sod and Sward (2 marks)

(b) (i) A farmer with a zero grazing unit has planned to establish *Bracharia* grass (*B. decumbens*) on a 0.75 ha piece of land in Mayanja. The recommended fertilizer rate is 25 Kg/Ha P<sub>2</sub>O<sub>5</sub> at planting. How much fertilizer (kg) should he purchase if his source is DAP (18:46:0)? (5 marks)

(ii) Mention five desirable attributes of cultivated pasture legumes in Kenya (5 marks)

(c) Write brief notes on two pasture and fodder conservation methods in Kenya (10 marks)

**Question 2.**

Describe the salient characteristics of Kenyan rangelands and explain how they relate with crop and livestock planning. (20 marks)

**Question 3.**

Outline the procedure for silage preparation stating the precautionary measures against loss and the additives to improve its preservation. (20 marks)

**Question 4.**

State and exhaustively explain the desirable attributes of cultivated pastures (20 marks)

**Question 5.**

Describe the plan for efficient management of pasture production systems within the limits of socio-economic and environmental factors in Kenya (20 marks)