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**UNIVERSITY EXAMINATIONS  
2022/2023 ACADEMIC YEAR**

**THIRD YEAR 2ND SEMESTER  
MAIN EXAMINATION**

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

**COURSE CODE:** ACR 312/321

**COURSE TITLE:** PASTURE AND FODDER CROPS

**DATE:** 19<sup>TH</sup> APRIL 2023 **TIME:** 9 – 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



1. (a) Briefly describe temporary leys and state five advantages of these pastures (10 marks)
- (b) (i) Highlight four (4) factors that influence the acceptability of plants to livestock. (4 marks)
- (ii) List four (4) advantages of vegetative propagation of fodder crops (4 marks)
- (iii) The aroma of silage is sometimes used to gauge its quality. Explain. (2 marks)
1. (c) Explain how the following factors affect hay quality. (10 marks)
- (i) Leafiness (ii) Colour (iii) Foreign material (iv) Weight (v) Odour
2. Discuss the desired attributes of pasture grasses. (20 marks)
3. Discuss the four main methods of pasture establishment (20 marks)
4. With the aid of schematic diagrams, describe the process of silage-making. State the merits and demerits in each case. (20 marks)
5. *Calliandra calothyrsus* has been promoted as an agroforestry tree in Western Kenya. Explain the merits of this effort. (20 marks)

END