

LAIKIPIA



UNIVERSITY

UNIVERSITY EXAMINATIONS

1ST SEMESTER 2022/2023 ACADEMIC YEAR

FOURTH YEAR EXAMINATIONS FOR BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION AND EDUCATION

AGED 412: PASTURE AND FODDER CROPS

STREAM: R

TIME: 2 HRS

DAY: WEDNESDAY (8.30- 10.30AM) DATE: 14/12/22

THIS QUESTION PAPER CONSISTS OF TWO (2 PAGES)

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.



INSTRUCTIONS: Answer question **ONE** and any other **TWO** questions

QUESTION ONE (30 MARKS)

- a). Differentiate between pasture and fodder crop. (3 mks)
- b). Name and explain three methods of sowing. (6 mks)
- c). Explain following terms (6 mks)
 - i). Defoliation
 - ii). Pure pasture stand.
 - iii). Topping
- d). State three reason why over grazing is a complicated potential problem in Kenya’s natural savanna grassland. (3 mks)
- e). Trees to encroaching grass should not be allowed, explain. (2 mks)
- f). Explain why herbage quality of pasture declines with age. (5 mks)
- g). Differentiate between carrying capacity and stocking rate. (2 mks)
- h). Tropical pasture does not meet the nutritional requirement for ruminant’s maximum production. Name three reasons. (3 mks)

QUESTION TWO (20 MARKS)

- (a) Discuss the challenges of livestock in tropical arid areas. (15 mks)
- (b) Explain why hay from tropical pasture is not reliable. (5 marks)

QUESTION THREE (20 MARKS)

- a). Describe the traditional management of natural pasture in Kenya. (10mks)
- b). Discuss the characteristic of grass, the science behind conservation and utilization. (10 mks)

QUESTION FOUR (20 MARKS)

- a). You are planning to make silage, explain the steps to follow. (10 mks)
- b). what are the characteristics of good silage. (10 mks)

