

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF SCIENCE IN AGRICULTURE, ANIMAL SCIENCE
& AGRICULTURAL EDUCATION

AGRI 271: PASTURE AND FODDER CROP PRODUCTION

STREAMS: BSC (AGRI/ANSC & BSC (AGED)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 06/12/2017

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION I AND ANY TWO IN SECTION II

SECTION I (30 MARKS)

- Q1. Explain briefly the propagation and management of napier grass (*pennisetumpurperum*) for increased production. [8 marks]
- Q2. (a) Pastures can be established by seed or vegetable propagation. What do you think influences the choice of the planting material by the farmer. [5 marks]
- (b) Grazing management is determined by knowledge of grass growth stage. Give an account of how grasses develop. [3 marks]
- Q3. (a) Explain why there is always inadequate pasture and fodder production in Kenya. [3 marks]
- (b) Advice your county government on the effects of seasonal fluctuations of pasture and fodder. [3 marks]
- Q4. (a) Advice livestock farmers why they should manage grasslands by burning. [4 marks]
- (b) Advice farmers on why it is recommended to harvest pasture for hay making at flowering stage. [4 marks]

SECTION II (40 MARKS)

5. (a) Give an account of the grazing methods that can be adopted by livestock farmers in Kenya. [12 marks]

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- (b) As a livestock agronomist what do you think will determine the seed rate adopted during establishment of a pasture. [8 marks]
6. (a) Give a detail of how livestock farmers can increase fodder production in their farms. [10 marks]
- (b) Advice livestock farmers on under sowing as an option for pasture and fodder establishment. [10 marks]
7. (a) Discuss ways through which farmers can improve and manage grasslands to facilitate their productivity. [10 marks]
- (b) Discuss the factors that determine the carrying capacity and the stocking rate within a grazing system. [10 marks]
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