



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

**UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE
ANIMAL SCIENCE**

THIRD YEAR SEMESTER TWO 2018 ACADEMIC YEAR

REGULAR

COURSE CODE: AAS 3224

COURSE TITLE: PRODUCTION AND UTILISATION OF PASTURES AND FODDERS

EXAM VENUE:

STREAM: BSC Animal Science

DATE:

EXAM SESSION:

TIME:

Instructions

- 1. Answer ALL questions in Section A (compulsory) and ANY TWO questions in Section B**
 - 2. Candidates are advised not to write on the question paper**
 - 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**
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SECTION A (Answer all questions)

1. a) Elaborate five importances of pasture and fodder production. [5 marks]
(b) List six aspects that are evaluated during forage breeding stage in a pasture development programme. [3 marks]
2. (a) State three advantages of establishing a mixed stand. [3 marks]
(b) State three conditions where one may use vegetative material for pasture establishment. [3 marks]
3. (a) List two methods used for fodder/pasture conservation. [2 marks]
(b) Briefly illustrate using examples frequently encountered nutritional disorders in cattle and sheep grazing on legume dominated pastures. [8 marks]
4. Using common and scientific names
(a) List three grasses species suited for the high altitude areas of Kenya (3 marks)
(b) Rhizobia strains for common leguminous fodder species in Kenya (3 marks)

SECTION B (Answer any two questions)

5. (a) List three factors that are considered at the time of planting pastures. [3 marks]
(b) Briefly explain five characteristics of a good pasture plants. [5 marks]
(c) Discuss under sowing as a method used in pasture and fodder establishment. [12 marks]
6. (a) List three management practices for multipurpose fodder trees. [3 marks]
(b) Explain three factors that affect hay quality. [6 marks]
(c) States the physical qualities of a good hay. [6 marks]
(d) Describe the factors that affect the grazing behaviour of animals (5 marks)
7. (a) Explain the main objectives of grazing managements. [4 marks]
(b) Describe the process of Silage making on a small scale farm. [10 marks]
(c) Using examples elaborate the roles of fermentation inhibitors in silage making [6 marks]