MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

FOURTH YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRONOMY AND BACHELOR OF SCIENCE IN ANIMAL SCIENCE WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

AAG 406: PASTURES AND FODDER CROPS

Date: 8th December, 2016 Time: 3.30 - 6.30 pm

INSTRUCTIONS:

- Answer ALL questions in SECTION A and any other THREE questions from SECTION B.

AAG 406: PASTURES AND FODDER CROPS

TIME 3.00 HRS (TOTAL MARKS 70)

ATTEMPT **ALL** THE QUESTIONS IN SECTION **A** AND ANY **THREE** IN SECTION **B**. DO NOT USE **ANY** RELEVANT EXAMPLE MORE THAN **ONCE** IN ANSWERING ANY QUESTION **(Provided in the paper or otherwise)**

SECTION A (40 marks)

Attempt **ALL** Questions in this section

1 Define what is meant by a Crop? (1 mark)

2 Give any three agro ecological zones that are suitable for intensive dairying and beef production in Kenya and give a reason for your choice in each case (6 marks)

3 Briefly describe any three broad categories of the fodders used in Kenya (3 marks)

4 Which are the two most important Fodder legumes in Kenya and why? (4 marks)

5 Name any two Landraces of fodder- grasses in Kenya but naturalized elsewhere (3 marks)

6 Write notes on the use of legumes as fodders (5 marks)

7 List any three Rangeland fodders and the roles they play in animal feeding (6 marks)

8 Briefly discuss, with relevant examples, the challenges found in fodder crops weed management (4 marks)

9 Why is it challenging to intercrop legume and grasses in fodder production? (2 marks)

10 Briefly explain why crude protein is a critical factor in the Agronomy of fodder (3 marks)

11 Explain briefly the importance of fertilizer management in Grassland Agronomy (3 marks)

SECTION B (30 marks)

Attempt any **THREE** Questions in this section

12 Using any three relevant sub regions in Kenya, account in details the importance of soils and topography in fodder crop production (10 marks)

13 Discuss in details, individually, the relevance of : *Themeda triandra , Pinnesateum clandestinum Medicago sativa, Cynadon dactylon,* and *Leucena leucocephala* in medium sized Pasture Agronomy (10 marks)

14 Give a detailed account for the process of pasture/ fodder establishment to harvesting (10 marks)

15 Irrigation pest control and grazing management are an integral part of pasture agronomy, discuss or argue against this point (10 Marks)