CHUKA　　　　　　　　　　　　　　　　　　UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION

AGRI 00271: PASTURE AND FODDER PRODUCTION

STREAMS: CERT (ANHE) Y2S2　　　　　　　　　　**TIME: 2 HOURS**

DAY/DATE: FRIDAY 09/08/2019　　　　　　　　　　**8.30 AM – 10.30 AM**

INSTRUCTIONS:

Answer ALL Questions in Section A (30 Marks) and any Two in Section B (30 Marks)

SECTION A: ANSWER ALL QUESTIONS

QUESTION ONE

(a)　With examples, define the following terms in reference to pasture and fodder production:

　　(i)　Fodder　　　　　　　　　　　　　　　　　　　　　　[2 marks]

　　(ii)　Ley　　　　　　　　　　　　　　　　　　　　　　　[2 marks]

(b)　Briefly explain any three (3) problems related to pasture production.　　[6 marks]

(c)　Differentiate between hypogeal and epigeal germination in reference to grass growth and development.　　　　　　　　　　　　　　　　　　　　[4 marks]

QUESTION TWO

(a)　State the common and scientific names of any three (3) legumes species that are commonly grown in Kenya.　　　　　　　　　　　　　　　　[3 marks]

(b)　Explain three advantages of fodder trees over grasses.　　　　[6 marks]

Question Three

(a)   Explain any two (2) factors that may lead to failure of seed germination during pasture establishment.   [4 marks]

(b)   Explain the factors that influence quality of silage.   [3 marks]

SECTION B (30 MARKS): ANSWER ANY TWO QUESTIONS

QUESTION FOUR

(a)   Grasses develop through a sequence of three primary development stages that should be recognized for grazing management. Describe these stages and explain how they influence grazing management.   [7 marks]

(b)   Discuss the main objectives of pruning as a management technique of fodder trees.
                                                                                                                [6 marks]

QUESTION FIVE

(a)   Discuss the factors which influence seed rate at the time of planting.   [7 marks]

(b)   Discuss the reasons for conservation of pasture and fodder.   [8 marks]

QUESTION SIX

(a)   Discuss any three (3) advantages of a zero-grazing system.   [9 marks]

(b)   Discuss ways of improving digestibility of nutrients, content availability and palatability in straw and Stover feeding to livestock.   [6 marks]