

# University Examinations 2010/2011

# FIRST/SECOND YEAR, FIRST SEMESTER EXAMINATIONS FOR DIPLOMA IN AGRICULTURAL EDUCATION AND EXTENSION/DIPLOMA IN AGRICULTURE/CERTIFICATE IN AGRICULTURE

#### AGR 121/123: PASTURE AND FODDER CROP MANAGEMENT

#### DATE: DECEMBER 2010

TIME: 1<sup>1</sup>/<sub>2</sub> HOURS

INSTRUCTIONS: Answer Question one which is Compulsory and any other two questions

## **QUESTION ONE – (30 MARKS)**

(a) Define the following terms as used in pasture and fodder crops management:				
	(i)	Forage.	(2 Marks)	
	(ii)	Ranch	(2 Marks)	
	(iii)	Ley	(2 Marks)	
	(iv)	Herb	(2 Marks)	
	(v)	Grazing	(2 Marks)	
(b) Discuss Chloris Gayana (Rhode grass) under the following sub-headings:				
	(i)	Natural habitat	(2 Marks)	
	(ii)	Palatability	(2 Marks)	
	(iii)	Persistence	(2 Marks)	
(c)	(i) Name two aims of rotational grazing.		(2 Marks)	
	(ii) Name two advantages of continuous grazing.		(2 Marks)	
(d)	) (i) State two reasons for conserving forage.		(2 Marks)	
	(ii) What is your understanding of the term stocking rate? (2 Mark			
	(iii) Describe the process of hay making as a method of conserving forage. (6 Marks)			

## **QUESTION TWO – (15 MARKS)**

(a)	What is dry-matter digestibility?	(2 Marks)
(b)	A grazing management system to be recommended must achieve three asp	ects, name
	them.	(3 Marks)
(c)	Name the two main grazing systems.	(2 Marks)

(d) Discuss the steps followed in making silage.	(8 Marks)			
QUESTION THREE – (15 MARKS)				
(a) Define the term carrying capacity.	(2 Marks)			
(b) What is a paddock?	(2 Marks)			
(c) Name the two grass species common in high altitude areas in Kenya.	(2 Marks)			
(d) Explain what is "set-stocked" as used in pasture and fodder crop manage	ment.			
	(2 Marks)			
(e) (i) What is zero-grazing (stall-feeding)	(1 Mark)			
(ii) Discuss three (3) advantages of zero-grazing (stall-feeding)	(6 Marks)			
QUESTION FOUR – (15 MARKS)				
(a) Discuss three ways of planting nappier grass (Pennisetum Purpureum)	(6 Marks)			
(b) Name three effects of weeds on pastures.	(3 Marks)			
(c) Give three reasons for top-dressing pastures.	(3 Marks)			
(d) State three importance of paddocking in grazing management.	(3 Marks)			
QUESTION FIVE – (15 MARKS)				
<ul><li>(a) Briefly describe the three parts of grass as discussed in botany of grass.</li><li>(b) What is the name given to the fruit of most grasses?</li><li>(c) Describe five desirable attributes of cultivated fodder crops.</li></ul>	(3 Marks) (2 Marks) (10 Marks)			