

# MACHAKOS UNIVERSITY COLLEGE

### (A Constituent College of Kenyatta University) University Examinations 2015/2016

# SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

# DEPARTMENT OF AGRICULTURAL EXTENSION AND EDUCATION

# FIRST SEMESTER EXAMINATION FOR DEGREE IN BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EDUCATION

### KRM 301: RUMINANT ANIMAL PRODUCTION

Date:		ſ	Гіme:
INSTR	RUCTI	ONS:	
	Ansv	wer Question One And Two Other Questions	
SECTI	ION A:	(COMPULSORY) 30 MARKS	
QUES'	TION	ONE:	
a)	Explain the following terms: (3 1		(3 marks)
	i)	Flushing	
	ii)	Steaming	
	iii)	Total mixed ration (TMR)	
b)	Expla	in FOUR importances of animal housing	(4 marks)
c)	Expla	in FIVE signs of a cow on heat	(5 marks)
d)	Expla	in THREE bad traits of a milking cow	(3 marks)
e)	Expla	in the following management operations in ruminant animal pr	oduction. (4 marks)

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- i) Castration
- ii) Ear notching
- f) Explain the techniques used in determining age and body weight of a ruminant animal

g) Explain any two mating systems in ruminant animals (4 marks)
h) Explain three factors that affect performance of draught animals. (3 marks)

### **SECTION B: 40 MARKS: ANSWER ANY OTHER TWO QUESTIONS**

### **QUESTION TWO**

Describe calf management under the following headings: (20 marks)

- i) Feeding from 0 weeks to weaning
- ii) Digestive system development
- iii) Diseases affecting calves
- iv) Routine practices

# **QUESTION THREE**

Descibe the artificial insemination procedure on a cattle					
QUESTION FOUR					
a)	Descibe FIVE uses of keeping farm records in relation to ruminant production.				
		(10 marks)			
b)	Discuss FIVE factors that can optimize the success of embryo transfer techn cattles.	ique in (10 marks)			
QUESTION FIVE					
a)	Discuss the care of a pregnant ewe up to lambing	(10 marks)			
b)	Describe the milking procedure of a dairy cattle	(10 marks)			

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(4 marks)