CHUKA



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THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE (ANIMAL SCIENCE)

ANSC 333: ANIMAL NUTRITION AND LIVESTOCK FEEDING

STREAMS: BSC (AGED, AGRI & FOST)

TIME: 2 HOURS

DAY/DATE: TUESDAY 05/12/2017 11.30 A.M. – 1.30 P.M.

INSTRUCTIONS: ANSWER ALL QUESTIONSIN SECTION A AND ANY TWO IN

SECTION B

SECTION A (30 MARKS)

1.	(a)	Describe animal nutrition.	[2 marks]
	(b)	Define a balance diet.	[2 marks]
	(c)	List feedstuffs rich in potassium	[2 marks]
	(d)	Highlight importance of Cu and Co in animal bodies	[2 marks]
	(e)	List compounds constituting NPN	[2 marks]
2.	(a)	List carbohydrates categories and one feed rich in each.	[2 marks]
	(b)	List Ether extracts composition in a feedstuff.	[2 marks]
	(c)	List groups of non-ruminants herbivores and give an example.	[2 marks]
	(d)	Highlight food preference models in ruminants.	[2 marks]
	(e)	Highlight potential of maize as fodder.	[2 marks]
3.	(a)	Outline potential of molasses in livestock feeding.	[2 marks]
	(b)	Highlight type of livestock fit for fat/oil feeding.	[2 marks]
	(c)	Highlight benefits of stall or shed feeding.	[2 marks]
	(d)	Describe gross energy.	[2 marks]
	(e)	Highlight a feed additive and give an example	[2 marks]

ANSC 333

SECTION B (40 MARKS)

4.	(a)	Write short notes on the following grasses species in Kenya.	[10 marks]
		(i) Napier grass or elephant grass (Pennisetumpurpureum)	
		(ii) Rhodes grass (Chlorisgayana)	
	(b)	Write short notes on two leguminous forage species in Kenya.	[10 marks]
5.	(a)	Describe various animal (based) origin protein sources used in farm animals	
		feeding.	[10 marks]
	(b)	Discuss factors influencing feeding standards and feed formulation in farm	
		animals.	[10 marks]
6.	(a)	Write short notes on cereal by-products used in livestock feeding.	[10 marks]
	(b)	Describe protein based anti-nutritional agents as relates to feed utilization in	
		livestock.	[10 marks]