CHUKA



UNIVERSITY

(16 marks)

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE

ANSC 332: FEEDS AND FEEDING

Define the following:

STREAMS: BSC (ANIMAL SCIENCE) TIME: 2 HOURS

DAY/DATE: TUESDAY 04/12/2018 2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

• Answer ALL questions in Section A and any 2 questions in Section B.

SECTION A

1.

	DUIIII	o the following.	(10 mams)		
	(a)	Dry Matter	(2 marks)		
	(b)	Silage	(2 marks)		
	(c)	Limiting amino acid	(2 marks)		
	(d)	NPN	(2 marks)		
	(e)	Phase feeding	(2 marks)		
	(f)	Feedstuff	(2 marks)		
	(g)	Biological value	(2 marks)		
	(h)	Omnivorous animal	(2 marks)		
2.	Giving	g brief answers or explanations of the following statements.	(24 marks)		
	(a)	Explain the fact that non-ruminants feeding on plant sources of ph still suffer from phosphorus deficiency.	osphorus can (4		
marks)					
	(b)	Outline the best stage of maturity to feed forages to animals.	(4 marks)		
	(c)	The basic principles in making hay.	(4 marks)		
	(d)	Differentiate between a complete diet and a supplement.	(4 marks)		

	(e)	Name 4 animal protein concentrates.	(4 marks)		
	(f)	Describe the role of probiotics in the ration.	(4 marks)		
	SECT	ION B			
3.	Fibre sometimes forms a significant proportion of the ration of ruminant animals				
morlza)	(a)	Describe the difference between the proximate and van Soest syste analyzing fibre content of feeds.	ems of (4		
marks)					
	(b)	Outline two ways of improving the utilization of straw in ruminant			
	(c)	Discuss the importance of fibre in the ration of lactating cows.	(4 marks) (4 marks)		
	(d)	List 3 classes of feedstuffs giving one example in each.	(3 marks)		
4.	There are many ways of expressing the nutritive value of a feedstuff				
	(a)	Explain the above statement	(2 marks)		
	(b)	Name and describe 2 systems of evaluating the energy value of fee			
	(c)	Describe 2 factors that affect the nutritive value of a feedstuff.	(6 marks) (4 marks)		
	(d)	List 3 ways of processing feedstuffs.	(3 marks)		
5.	Formu animal	lation of a ration requires a good understanding of the nutrients requires	uirements of an		
	(a)	Explain the above statement	(2 marks)		
	(b)	List any six basic information required in formulating a ration.	(3 marks)		
	(c)	An animal was offered 800 g of feed daily with a dry matter contermean daily feed residual was 150g and daily faecal output			
a DM (marks)		32%. Calculate the digestibility of the feed.	(6		
,	(d)	Discuss two main considerations in feeding piglets immediately af	ter birth. (4 marks)		