THE NATIONAL UNIVERSITY OF LESOTHO FACULTY OF AGRICULTURE B.SC. AGRIC ANIMAL SCIENCE (ANIMAL SCIENCE) ANS 2503: FEEDS & FEEDING FIRST SEMESTER FINAL EXAMINATION

JANUARY 2024

MARKS: 100

TIME: 3 HOURS

Instructions: Answer All Questions

Question 1

Write the following acronyms in full:

CF	APF	
EE	ANF	
TDN	PUFAs	
NPN	NCFRs	
NFE	EAAs	(10)

Question 2

Differentiate between the following:

 a) Balance ration and Complete ration b) Essential and Non-essential amino acids c) Saturated and Unsaturated lipids d) Crude protein and Digestible crude protein e) Nutrient and Nutrition (1) 	0)		
Question 3			
a) Discuss how nutrition plays an important role in animal production and health.b) Discuss roughage types on the basis of nutrient density.			
Question 4			
 a) A farmer wants to determine if a certain feedstuff can be included in formulating a rati for his broilers due to its fibre content. Outline the steps you would follow in order to analyse the crude fibre of the feedstuff. b) Dried brewer's grain when analysed contained 23.2% CP on as fed basis and 11.9% moisture. Calculate % CP on DM basis. 			
Question 5			
What are the functions of lipids/fats in animal nutrition?			
Question 6			
Write short notes on the nutritional value of the following:			
i) Maize ii) Oats iii) Clovers (1	2)		
Question 7			

Mention one native grass in Lesotho and briefly discuss its nutritive value. (10)

Question 8

Feeding of farm animals can be done in different ways. Discuss 5 common feeding practices.

(15)

Question 9

Explain how anti-nutritional factors affect utilization of nutrients and give one example for each.

(8)