

CHUKA



UNIVERSITY

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RESITS/SPECIAL EXAMINATIONS

EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE

ANSC 333: ANIMAL NUTRITION AND LIVESTOCK BREEDING

STREAMS:

TIME: 2 HOURS

DAY/DATE: FRIDAY 1/9/2023

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS: Answer all question in Section A and any TWO in B.

Section A

1. Distinguish between fat and oil and give two examples for each (2 marks)
 - b) Fish Meal is common animal protein feed ingredient, outline reasons that limits its use (4 marks)
 - c) State two (2) advantages of leguminous forages and state four (2) examples of the crop (4 marks)
2.
 - a) Outline one reason why ruminant animal thrive on rations deficient of minerals (1 mark).
 - b) State two feedstuffs rich in non-protein nitrogen (1 mark)
 - c) Distinguish between Nitrogen free extracts and crude fibre (1 marks)
 - d) Distinguish between concentrates and succulent feeds (2 marks)
 - e) State four (4) feed resources rich in energy (2marks)
3. Define term fodder corn or corn fodder and state two advantages of the fodder (2 marks)
 - b) Outline fodder crops grown as common cereals (2 marks).
 - c) Describe the term” smaller grasses” and give two example (4 marks)
 - d) Define the following terms; digestible nutrient, coefficients of digestibility and dry matter (3 marks)

Section B

4. a. Discuss factors to be considered when formulation a home ration (10 marks)
b) Compound a feed of ration of 16% crude protein (CP) using cotton seed cake (CSC) and maize germ (MG). Use the following data; crude protein of i) CSC 35, ii) MG 10.6 % (10 marks).
5. a) Discuss the economic importance of feeding farm animals in Kenya (10 marks)
b) Describe protein based antinutritional factors (10 marks)
6. Write short notes on digestion, absorption and utilization feedstuffs in farm animals (20 marks)

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