

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF  
SCIENCE IN ANIMAL HEALTH AND PRODUCTION

ANSC 333: ANIMAL NUTRITION AND LIVESTOCK FEEDING

STREAMS: B.Sc ANSC

TIME: 2 HOURS

DAY/DATE: FRIDAY 14/12/2018

2.30 P.M - 4.30 P.M.

INSTRUCTIONS

- Answer ALL questions in Section A and any TWO in Section B
- Do not write anything on the question paper

SECTION A

1. (a) Define the following terms;
  - (i) Nutrition [2 Marks]
  - (ii) Feeding [2 Marks]

(b) Describe feed components. [2 Marks]

(c) Describe crude protein categories and give a source for each. [4 Marks]
2. (a) Highlight factors influencing proportion of crude fibre in plants. [2 Marks]

(b) State crude fibre rich feedstuffs. [2 Marks]

(c) Highlight how fat quantity in a feed is analyzed. [2 Marks]

(d) Describe how metabolic water is formed. [2 Marks]

(e) Highlight how ash quantity in a feed is analyzed. [2 Marks]
3. (a) Describe vitamin categories. [2 Marks]

(b) Describe animals referred to as non-ruminant herbivores with a rather large and complex large intestine. [2 Marks]

(c) Describe attributes of ruminant animals. [2 Marks]

(d) Describe advantages of maize as livestock feed. [2 Marks]

(e) State different fodder trees. [2 Marks]

**SECTION B**

4. (a) Describe the forage legumes species grown in Kenya. [10 Marks]  
(b) Describe the different grass species grown in Kenya. [10 Marks]
5. (a) Discuss factors influencing feed intake in domestic animals. [10 Marks]  
(b) Discuss factors influencing livestock feed formulation. [10 Marks]
6. (a) Describe antinutritional factors found in feeds. [10 Marks]  
(b) Discuss factors influencing feed quality. [10 Marks]
- .....