

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

ANSC 332: FEEDS AND FEEDING

STREAMS: BSC (ANSC)

TIME: 2 HOURS

DAY/DATE: TUESDAY 05/12/2017

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO IN SECTION B

1. Define the following
 - (a) Feeding standards [1 mark]
 - (b) Net energy of a feed [1 mark]
 - (c) Feedstuff [1 mark]
 - (d) Starch equivalent [1 mark]
 - (e) Herbivorous animal [1 mark]
 - (f) Dry matter [1 mark]
 - (g) NPV [1 mark]
 - (h) Feed additive [1 mark]
 - (i) Phase feeding [1 mark]
 - (j) By-pass protein [1 mark]

2. Answer the following:
 - (a) Outline the variations in the dry matter content and nutritive value of forages at different stages of growth. [4 marks]
 - (b) Name 4 plant protein concentrates [4 marks]
 - (c) Discuss the difference between silage and hay [4 marks]
 - (d) Describe the role of feed additives in the ration [4 marks]

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- (e) Differentiate between the proximate and van soest systems of analyzing fibre content of feeds. [4 marks]
- (f) List 4 systems of evaluating the protein value of feedstuffs. [4 marks]
- (g) Comment on the visual appraisal in evaluating the nutritive value of feeds. [4 marks]

SECTION B

- 3. Formulating a ration requires information on the nutritive value of the available feedstuffs and the nutrient requirements of the animal.
 - (a) List the basic information required to formulate a ration [6 marks]
 - (b) A farmer wants to feed his animals a ration of maize (8% CP) and cotton seed cake (35% CP) containing 16% CP. If he wants to make one ton of feed how much maize and cotton seed cake does he require? [7 marks]
 - (c) Which is the most likely species of animals to be fed. [2 marks]
 - 4. Many factors contribute to the quality of feeds
 - (a) Explain the above statement
 - (b) Describe 4 reasons of processing animal feeds [4 marks]
 - (c) Describe 4 factors that affect feed intake of an animal [4 marks]
 - (d) List 3 factors that affect the digestibility of forage. [3 marks]
 - 5. Describe the strategic feeding of cattle for optimum reproductive performance. [15 marks]
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