

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

ANSC 333: ANIMAL NUTRITION AND LIVESTOCK FEEDING

STREAMS: AGED, AGRO, FOST Y3S1

TIME: 2 HOURS

DAY/DATE: TUESDAY 10/12/2019

2.30 PM – 4.30 PM

INSTRUCTIONS:

Answer ALL Questions in Section A and any Two in Section B

Section A

1. (a) List nutrient elements comprising dry matter. [2 marks]
- (b) Highlight animal feeds that can alleviate magnesium deficient in poultry. [2 marks]
- (c) List three amino acids lacking in gelatin and zein. [2 marks]
- (d) Describe effects of processing SBM for pig feeding. [2 marks]
- (e) List feedstuffs rich in Nitrogen-free extract. [2 marks]
2. (a) Distinguish between fodder and forages. [2 marks]
- (b) Describe common feeds rich in fiber. [2 marks]
- (c) List feed ingredients rich in fats/oil for farm animals. [2 marks]
- (d) List wheat by-products [2 marks]

(e) Describe reasons for not supplementing Vitamin B and C to ruminant animals. [2 marks]

3. (a) Describe preferences of feeding cereals to pigs. [2 marks]

(b) Highlight nutrients in high quantities in storage roots and tubers. [2 marks]

(c) Describe the uses of molasses in feeding farm animals. [2 marks]

(d) Describe the limitation associated with feeding in young sorghums. [2 marks]

(e) List fodder trees used in feeding farm animals. [2 marks]

SECTION B

5. (a) Identify and write brief descriptions of grass species grown in Kenya. [10 marks]

(b) Discuss factors affecting fodders grown in tropics. [10 marks]

6. (a) Identify and write brief descriptions of legume species grown in Kenya. [10 marks]

(b) Discuss factors influencing home-made feed formulation. [10 marks]

7. (a) Discuss factors influencing of feeding standards and feed formulation in agricultural animals. [10 marks]

(b) Identify and describe anti-nutritional factors contained in fodders. [10 marks]
