

CHUKA



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**EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF EDUCATION ARTS**

ANSC 00133: ANIMAL NUTRITION AND LIVESTOCK FEEDING

STREAMS: CERT (ANHE)

TIME: 2 HOURS

DAY/DATE: MONDAY 10/12/2018

8.30 AM – 10.30 AM

INSTRUCTIONS:

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

SECTION A (40 MARKS)

1. Define the following terms
 - (a) Dry matter basis [2 marks]
 - (b) Gross energy [2 marks]
 - (c) Ration [2 marks]
 - (d) Digestibility [2 marks]
 - (e) Bypass protein [2 marks]

2. List any five
 - (a) Classes of feedstuffs. [5 marks]
 - (b) Reasons of including lipids during ration formulation [5 marks]

3. Layer mash contain 18% cp on dry matter basis. Given that the mash has 80% dry matter and that the bird consumers 120g of the mash in a day, calculate.
 - (a) Crude protein value of the mash of fresh basis. [3 marks]
 - (b) Daily dry matter consumption by the bird [2 marks]
 - (c) Daily water consumption by the bird [2 marks]
 - (d) Body weight of the bird [3 marks]

4. Briefly describe four mechanisms by which voluntary feed intake is controlled in animals. [10 marks]

SECTION B (30 MARKS)

5. Animal nutrition is both an art and science. Discuss [15 marks]

6. (a) Describe four diet-based factors that affect daily water requirement in animals. [12 marks]

- (b) List three sources of water to farm animals. [3 marks]

7. Discuss how ash content of the feed sample can be determined in the laboratory indicating apparatus and reagents (if any) [15 marks]
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