

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION

ANSC 00233: ANIMAL NUTRITION

STREAMS: CERT ANSC

DAY/DATE: THURSDAY 07/08/2025

TIME: 2 HOURS

2.30P.M. –4.30 P.M

Answer ALL QUESTIONS in section A & TWO in section B

Section A (40 marks)

QUESTION 1

Using suitable examples, differentiate between the following terms:-

- a) Feed and nutrients (2 marks)
- b) Moisture and dry matter (2 marks)
- c) Forages and pastures (2 marks)
- d) Ruminants and non-ruminants (2 marks)
- e) Microbial digestion and enzymatic digestion (2 marks)

QUESTION 2

- a) Highlight the importance of proximate analysis of animal feeds (2 marks)
- b) Give four functions of carbohydrates within the body of animals (4 marks)
- c) List four animal factors affecting the digestibility of feeds (4 marks)

QUESTION 3

- a) Highlight the importance of a balanced diet to animals (5 marks)
- b) Outline five benefits of microbial fermentation to dairy cows (5 marks)

QUESTION 4

- a) Name five factors affecting voluntary feed intake in farm animals (5 marks)
- b) Give five important roles played by vitamins in the body of an animal (5 marks)

SECTION B (30 MARKS)

QUESTION 5

- a) Suggest five ways of preventing mineral deficiencies in livestock (5 marks)
- b) Discuss five factors that affect the chemical composition of livestock feeds (10 marks)

QUESTION 6

- a) Discuss five characteristics that make the reticulo-rumen suitable for microbial digestion of crude fibre (5 marks)
- b) Explain five effects of malnutrition on farm animals (10 marks)

QUESTION 7

- a) Discuss five limitations of plant source proteins (5 marks)
 - b) Discuss five factors to consider when preparing a ration (10 marks)
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