

LAIKIPIA



AGED 316

UNIVERSITY

UNIVERSITY EXAMINATIONS

1ST SEMESTER 2025/2026 ACADEMIC YEAR

THIRD YEAR EXAMINATIONS FOR BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

AGED 316: ANIMAL NUTRITION AND LIVESTOCK FEEDING

STREAM: (AGED & EXT.)

TIME: 2 HRS

DAY: WEDNESDAY (11.30-13.30)

DATE: 4/2/2026

THIS QUESTION PAPER CONSISTS OF THREE (3 PAGES)

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS:

Answer Question one and any other two

QUESTION ONE (30 MARKS)

- a) Explain FIVE importance of animal nutrition in improving livelihoods. (5 marks)
- b) Highlight FIVE ways to address anti-nutritive factors in sorghum in chicken nutrition. (5 marks)
- c) Distinguish between digestion of concentrates in Friesian and a pig. (4 marks)
- d) State FOUR reasons why amino acid is essential in broilers and not in a cow. (4 marks)
- e) Explain FOUR effects of feeding high amounts of crude fiber in chickens. (4 marks)
- f) State FOUR deficiency symptoms of vitamin E in pigs. (4 marks)
- g) Explain the fate of rumen degradable proteins in ruminants. (4 marks)

QUESTION TWO (20 MARKS)

- a) Compare the effect of providing a dairy cow with high fibre content supplemented with concentrates and another one with roughages only. (10 marks)
- b) Explain the digestion of protein in reticulorumen chamber. (10 marks)

QUESTION THREE (20 MARKS)

- a) Discuss FIVE animal-related factors that affect digestibility. (10 marks)
- b) Highlight FOUR reasons why determination of moisture content in a feed is important. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss FIVE functions of proteins in heifers (10 marks)
- b) Using equation method, determine the amounts of hay (12% crude protein [CP]) and supplement (38% CP) to be used in formulating a diet with 16% CP. (10 marks)