CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

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

ANSC 450: RUMINANT PRODUCTION

STREAMS:AGRIC Y4S1   **TIME: 2 HOURS**

DAY/DATE: THURSDAY 6/12/2018   **8.30 A.M – 10.30 A.M**

INSTRUCTION:

- **Attempt all questions in section A and only two questions in section B**

SECTION A

1.   (a) Highlight attributes of ruminants animals.   [2 marks]

      (b) Describe challenges of raising cattle under free range system.   [2 marks]

      (c) Highlight methods of limiting undesirable traits in cattle.   [2 marks]

      (d) Highlight traits used to carry out early selection in dairy goats. [2 marks]

      (e) Highlight periods when selection of beef is conducted.   [2 marks]

2.   (a) Describe problems related to parturition in beef cattle.   [2 marks]

      (b) Describe benefits of MOET in cattle breeding.   [2 marks]

      (c) Highlight limitations of ruminant digestion.   [2 marks]

      (d) Describe reasons why is not necessary to supplement to sheep and goats. [2 marks]

      (e) Describe how to avert bloat in sheep.   [2 marks]

3.   (a) Describe attributes of Merino sheep.   [2 marks]

      (b) Describe drawbacks in merino lambs.   [3 marks]

(c) Describe the causes of pregenancy toxaemia in ewes.　　　　　　[2 marks]

(d) Describe advantages of Angus crossbreds.　　　　　　　　　　[2 marks]

SECTION B

4.　　　(a) Discuss factors influencing choice of mating period in small ruminants. [10 marks]

　　　　(b) Discuss elements influencing selection in ruminant farm animals.　　[10 marks]

5.　　　(a) Discuss factors influencing usage of artificial insemination in ruminant farm animals.
　　　　　　　　　　　　　　　　　　　　　　　　　　　　[10 marks]

　　　　(b) Discuss benefits of seasonal breeding in beef cattle.　　　　　[10 marks]

6.　　　(a) Discuss factors influencing use of feed additives in ruminant farm animals. [10marks]

　　　　(b) Discuss general measures of disease prevention in farm ruminants.　[10 marks]