

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

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

**ANSC 450: RUMINANT PRODUCTION**

**STREAMS: BSC (AGED) Y4S2**

**TIME: 2 HOURS**

**DAY/DATE: MONDAY 16/4/2018**

**2.30 P.M. – 4.30 P.M.**

**INSTRUCTION: ATTEMPT ALL QUESTIONS IN SECTION A AND ANY TWO IN B**

**SECTION A (30 MARKS)**

1. (a) Distinguish between the following as applied in ruminant production.[6 marks]
  - (i) Bull and bullock
  - (ii) Veal and beef
  - (iii) Gimmer and Gummer
- (b) Highlight the various secondary roles played by beef cattle. [2 marks]
- (c) Highlight various attributes of dairy cattle agriculture. [2 marks]
2. (a) Highlight various drawbacks in confined production systems of dairy goats. [2 marks]
- (b) Highlight various traits of economic importance in black head Persian.[2 marks]
- (c) High limitation MOET in dairy goat production. [2 marks]
- (d) Outline various benefits of ruminant digestion. [2 marks]
- (e) List major grazing methods used semi-arid lands in east Africa. [2 marks]
3. (a) Highlight benefits of sheep rearing compared beef cattle. [2 marks]
- (b) Highlight various sheep groups and state one breed in each. [2 marks]
- (c) What are the advantages of Small East African Goat (SEAG) over Saanenbreed. [2 marks]
- (d) Outline various benefits of steaming dairy cows. [2 marks]
- (e) Outline various drawbacks of homegrown camel bulls. [2 marks]

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**SECTION B (40 MARKS)**

4. (a) Discuss various factors influencing season breeding in beef cattle production. [10 marks]
- (b) Discuss various factors influencing land carrying capacity for camel production. [10 marks]
5. (a) Discuss various principles of housing of goats in tropics. [10 marks]
- (b) Explain in details Jersey cattle management. [10 marks]
6. (a) Discuss various factors influencing processing of beef. [10 marks]
- (b) Explain in detail yoghurt processing. [10 marks]
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