

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

ANSC 454: GOAT PRODUCTION

STREAMS: B.SC ANSC Y4S1

TIME: 2 HOURS

DAY/DATE: FRIDAY 06/12/2019

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- **This examination has TWO sections: A and B.**
- **Attempt ALL questions in section A and TWO questions in section B.**
- **Mobile phones are NOT ALLOWED in the examination room.**

SECTION A: ATTEMPT ALL QUESTIONS (30 MARKS)

1. Fill in the gaps in relation to goats

Family: _____

Sub-family: _____

Genus: _____

Species: _____ (4 marks)

2. Give two characteristics that distinguish a goat from a sheep. (2 marks)

3. Describe two meat and two dairy goat species found in Kenya. (8 marks)

4. Describe two goat production systems found in Kenya. (8 marks)

5. Describe two disease control measures in goats. (4 marks)

6. Describe two disease vectors found in Kenya. (4 marks)

SECTION B: ATTEMPT ANY TWO QUESTIONS (40 MARKS)

7. Breeding is a pathway for genetic improvement of goats
- (a) Describe two mating systems practiced in goat breeding in Kenya. (6 marks)
 - (b) Fill in the gaps
 - (i) Age at puberty : _____
 - (ii) Ideal age for first service: _____
 - (iii) Gestation period: _____
 - (iv) Estrus length: _____
 - (v) Length of estrus cycle: _____ (5 marks)
 - (c) Using a diagram, describe the female goat reproductive system. (5 marks)
 - (d) Describe the role of the hormones in reproduction in goats
 - (i) Follicle stimulating hormone
 - (ii) Estrogen
 - (iii) Gonadotropin releasing hormone
 - (iv) Inhibin (4 marks)
8. Nutrition plays a key role in goat production.
- (a) Describe using a diagram the goat digestive system. (5 marks)
 - (b) Describe the role of micro-organisms in goat nutrition. (5 marks)
 - (c) Describe digestion in:
 - (i) Rumen
 - (ii) Small intestines (10 marks)
9. Discuss the following diseases stating the causative agent, symptoms, treatment, prevention and control;
- (a) Anthrax
 - (b) Trypanosomiasis (20 marks)
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