

CHUKA



UNIVERSITY

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**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DIPLOMA IN ANIMAL HEALTH AND PRODUCTION**

**ANHE 0236: METABOLIC, NUTRITIONAL AND REPRODUCTIVE DISEASES**

**STREAMS:**

**TIME: 2 HOURS**

**DAY/DATE: WEDNESDAY 11/12/2019**

**2.30 P.M – 4.30 P.M**

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**INSTRUCTIONS**

**Attempt all questions in section A and any other two in section B**

**Do not write on the question paper. All rough work must be done on the answer booklet and the crossed.**

**SECTION A (30 MARKS)**

1. List four risk factors of lactation tetany. [4 marks]
2. Giving examples in each case, distinguish between the essential macro and micro minerals in livestock. [8 marks]
3. Indicate the usefulness and deficiencies associated with:
  - (a) Thiamine [3 marks]
  - (b) Biotin [3 marks]
4. Indicate four problems related to calving. [4 marks]
5. Indicate the cause, clinical signs and transmission treatment of rabbit syphilis.

[8

marks]

**SECTION B (40 MARKS)**

6. (a) A farmer in Kirubia reported that, his ewe in the last stage of gestation had the following clinical signs, depression, abnormal posture, loss of muscle tone, problems of

balance and locomotion recombency, coma and death. Give the differential diagnosis of this condition and discuss one differentia. [10 marks]

(c) Discuss one nutritional condition that affect piglets immediately after birth. [10 marks]

7. (a) Discuss ammonia poisoning in cattle. [10 marks]

(b) Discuss the metabolism of vitamin D. [10 marks]

8. (a) Discuss various factors that can lead to conception failure in cattle. [10 marks]

(b) Discuss campylobacteriosis under, cause, distribution, transmission, diagnosis and control. [10 marks]

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