**CHUKA** 



#### **UNIVERSITY**

# **UNIVERSITY EXAMINATIONS**

# EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION

ANHE 00125: METABOLIC, NUTRITIONAL AND REPRODUCTIVE DISEASES

STREAMS: CERT (ANHE) TIME: 2 HOURS

DAY/DATE: MONDAY 05/08/2019 2.30 PM – 4.30 PM

#### **INSTRUCTIONS:**

## **SECTION A: ATTEMPT ALL QUESTIONS (40 MARKS)**

1. Outline the causes of iron deficiency and the clinical manifestations in animals?

[5 marks]

- 2. Briefly discuss grain overload under the following:
  - (a) What is grain overload?

[1 mark]

(b) Clinical signs

[4 marks]

- 3. Discuss bovine brucellosis under;
  - (a) Aetiology

[1 mark]

(b) Clinical signs

[4 marks]

- 4. Discuss piglet anemia under;
  - (a) Causes and predisposing factors

[2 marks]

(b) Clinical signs

[3 marks] [1 mark]

5. Discuss water intoxication under;

Treatment

(a) Causes

(c)

[1 mark]

(b) Clinical findings

[3 marks]

(c) Treatment and control

[2 marks]

6. Outline some non-infectious causes of infertility in cattle.

[5 marks]

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7.	Briefly discuss Milk Fever in domestic animals under;			
	(a) (b)	Clinical presentation of milk fever Treatment and prevention of milk fever	[5 marks] [3 marks]	
SECTION B: ATTEMPT ANY TWO QUESTIONS (30 MARKS)				
8.	Briefl	Briefly discuss bloat under the following,		
	(a) (b) (c)	Causes primary bloat Clinical signs of bloat Treatment of primary bloat and secondary bloat.	[5 marks] [5 marks] [5 marks]	
9.	Discuss copper deficiency in domestic animals under;			
	(a) (b) (c) (d)	Role of copper in the body. Clinical signs of copper deficiency Role of Vitamin B complex in the body Clinical signs of vitamin deficiency in animals.	[3 marks] [5 marks] [3 marks] [4 marks]	
10.	Discu	Discuss Bovine mastitis under;		
	(a) (b) (c)	Classification of mastitis Clinical presentation Treatment and prevention	[5 marks] [5 marks] [5 marks]	