

**CHUKA**



**UNIVERSITY**

**COLLEGE**

**UNIVERSITY EXAMINATIONS**

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

**ANHE 0323: TOXICOLOGY & METABOLIC DISEASES**

**STREAMS: DIP. ANHE Y3S2**

**TIME: 2 HOURS**

**DAY/DATE: THURSDAY 13/12/2012**

**8.30 A.M – 10.30 A.M.**

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**INSTRUCTIONS:**

**Answer all questions in Section A and any 2 questions in section B.**

**Section A: 30 Marks**

1. Distinguish between the toxicity of a product and the hazard of poisoning by the product occurring in an animal under the conditions of use the product. [5 marks]
2. What do you understand by the term  $LD_{50}$ ? [4 marks]
3. If product **A** has an  $LD_{50}$  of 100mg per kilogram body weight of a given animal, and product **B** has an  $LD_{50}$  of 200mg per kilogram body weight of the same animal, which of the 2 products is more toxic. [2 marks]
4. Mention the 3 methods by which chemical asphyxiants may act, giving one example for each category. [9 marks]
5. There are numerous life processes that occur within living cells, mention any 5 of them. [10 marks]

**Section B: 40 Marks**

6. Briefly discuss the diagnosis of cases of poisoning under the following headings:
  - (a) History
  - (b) Clinical signs
  - (c) Lesions
  - (d) Lipid
  - (e) Lab examinations

7. Discuss the management of toxicosis under the following topics:
- (a) Mention the 3 basic principles that comprise the treatment of toxicosis in livestock. [6 marks]
  - (b) List 7 of the 8 steps that may be taken to prevent further absorption of the toxicant. [14 marks]
8. Discuss Grass Tetany [Hypomagnesemia] under the following topics: [20 marks]
- (a) Etiology
  - (b) Clinical signs
  - (c) Prevention
  - (d) Treatment
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