

**CHUKA**



**UNIVERSITY**

**COLLEGE**

**UNIVERSITY EXAMINATIONS**

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

**ANHE 00314: PHARMACOLOGY & TOXICOLOGY**

**STREAM: CERT. (ANHPD) Y2S1**

**TIME: 2 HOURS**

**DAY/DATE: WEDNESDAY 8/12/2010**

**11.30 A.M. – 1.30 P.M.**

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**INSTRUCTIONS:**

Answer all questions in Section A & B.

**SECTION A: PHARMACOLOGY**

1.
  - (a) Briefly describe metabolism of drug in the body of an animal. [2 marks]
  - (b) Name five (5) major organs where enzymes which carry out detoxification are found. [5 marks]
  - (c) What influences enzyme activity in drug break down in the body of an animal? [4 marks]
  - (d) What are the two elimination pathways? [2 marks]
2. What do you understand by the following terms:
  - (a) Bacterialstatic
  - (b) Spectrum of antibiotics
  - (c) Potenciation
  - (d) Penicillin
  - (e) Drug toxicity [10 marks]
3. Give at least four (4) therapeutic principles of sulphur drugs. [4 marks]

4. Tetracycline hydrochloride is one of the antibiotics widely used in veterinary medicine. Briefly give its:
- (a) Physical/chemical properties
  - (b) Its stability
  - (c) Administration route/Absorption
  - (d) Action other than that of chlorotetracycline and oxytetracycline
- [8 marks]

**SECTION B: TOXICOLOGY**

1. (a) Discuss all aspects of bracken fern poisoning in Bovines. [5 marks]
- (b) How does the problem manifest itself:-
- (i) Clinically [2 marks]
  - (ii) On post-mortem findings [2 marks]
- (c) How can one
- (i) diagnose the disease [2 marks]
  - (ii) Control the problem [2 marks]
- (d) What advice would you give to a farmer with an animal with such a problem? [2 marks]
2. Discuss the predisposing factors that lead to plant poisoning in domestic animals. [5 marks]
3. Briefly give an account of Nitrate poisoning and its characteristic symptoms. [5 marks]
4. Name and briefly explain five (5) sources of poisoning of domestic animals which occur due to man made hazards. [10 marks]
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