

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DIPLOMA IN ANIMAL HEALTH AND PRODUCTION

ANHE 0227: PHARMACOLOGY AND TOXICOLOGY

STREAMS: DIP ANHE

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 11/12/2019

8.30 A.M – 10.30 A.M

INSTRUCTIONS

SECTION A: ATTEMPT ALL QUESTIONS (30 MARKS)

1. Define the following terms used in pharmacology. [5 marks]
 - (a) Pharmacognosy
 - (b) Drug
 - (c) Therapeutics
 - (d) Generic drugs
 - (e) Pharmacopoeia
2. (a) Give the criteria used in drug classification [4 marks]
(b) Differentiate between pharmacokinetics and pharmacodynamics. [3 marks]
3. (a) Differentiate between controlled release, and long acting drug formulations. [4 marks]
(b) List 3 enteral and 3 parenteral drug administration routes. [3 marks]
4. Describe the autonomic nervous system (ANS) under;
 - (a) Outline neurotransmitters of the ANS . [2 marks]
 - (b) Types and examples of adrenergic drugs. [3 marks]
 - (c) Differentiate between anticonvulsants and tranquilizers. [2 marks]
5. Describe affinity, potency and Efficacy regarding drug action. [4 marks]

SECTION B: ATTEMPT ANY 4 QUESTIONS (40 MARKS)

6. (a) Explain two general classifications of pain. [4 marks]
(b) Give an examples of narcotic analgesic. What are their side effects? [3 marks]
(c) Benzodiazepines are antianxiety drugs. Give an example and state their mechanism of action. [3 marks]
7. (a) Name two classes of anti-emetic drugs and their action. [3 marks]
(b) How do antidiarrheal drugs act in the digestive tract? [2 marks]
(c) Describe gastric protectants and adsorbents giving examples. [5 marks]
8. (a) Differentiate bactericidal and bacteriostatic drugs and how they act. [3 marks]
(b) Outline classifications of penicillins giving examples and characteristics. [4 marks]
(c) Outline classifications of cephalosporins and their characteristics. [3 marks]
9. (a) Outline two classes of antifungal drugs giving examples and their characteristics. [6 marks]
- marks]
- (b) How antiviral drugs act in the body giving examples. [4 marks]
10. (a) Describe mechanism of action benzimidazole antinematodal drugs giving 3 examples and their characteristics. [5 marks]
(b) Write short notes on anticoccidial and antiprotozoal drugs giving examples, uses and characteristics. [5 marks]
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