



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2024/2025

SECOND YEAR FIRST SEMESTER EXAMINATION FOR CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION

AAP 1211: BASIC PHARMACOLOGY AND TOXICOLOGY

DATE: JANUARY 2025

TIME: 1½ HOURS

INSTRUCTIONS:

*Answer question **ONE** and any other **TWO** questions*

QUESTION ONE (30 MARKS)

- a) Outline the difference between pharmacodynamics and pharmacokinetics (4 marks)
- b) Outline the difference that exist between agonist and antagonist (3 marks)
- c) Give five clinical signs of lead poisoning (5 marks)
- d) Give four problems associated with the use of antimicrobial agents (4 marks)
- e) Giving examples, list two classes of anticonvulsant drugs (3 marks)
- f) Give three examples of organophosphate compounds (3 marks)
- g) Outline the three basic principles used in treatment for toxicosis (4 marks)
- h) Highlight four properties of ideal antimicrobial agents (4 marks)

QUESTION TWO (15 MARKS)

- a) Describe characteristics of an ideal Anthelmintic (5 marks)
- b) Describe five routes of drug administration (10 marks)

QUESTION THREE (15 MARKS)

- a) Describe the mechanism of action of tetracyclines (5 marks)
- b) Give five adverse effects of antibiotic wage (5 marks)
- c) Describe five sources of drugs (5 marks)

QUESTION FOUR (15 MARKS)

- a) Discuss factors that predispose animals to nitrate poisoning (5 marks)
- b) Discuss five mechanism of action of Antimicrobial agents (10 marks)