



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2024/2025

SECOND YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN ANIMAL HEALTH AND PRODUCTION

AAP 2252: PHARMACOLOGY AND TOXICOLOGY II

DATE: JANUARY 2025

TIME: 1½ HOURS

INSTRUCTIONS:

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

QUESTION ONE (30 MARKS)

- a) Differentiate between the following terms;
 - i. Toxicokinetics and toxicodynamics (2 marks)
 - ii. Poison and toxin. (2 marks)
 - iii. Synergistic effect and additive effect of drugs (2 marks)
 - iv. Median lethal dose and Median effective dose (2 marks)
 - v. Poison and toxin (2 marks)
- b) List the factors that determine the rate of distribution of toxicants (5 marks)
- c) Describe the sources of lead poisoning in cattle. (5 marks)
- d) List the principles of toxicosis therapy (3 marks)
- e) List the classes of poisons based on mode of action (5 marks)
- f) Name the toxin found in Sodom apple (2 marks)

QUESTION TWO (15 MARKS)

Discuss the factors affecting the activity of toxicants

(15 marks)

QUESTION THREE (15 MARKS)

- a) Using relevant examples, discuss the steps that will aid in diagnosis of toxicosis in animals (10 marks)
- b) Outline the clinical presentation of aflatoxicosis in dogs (5 marks)

QUESTION FOUR (15 MARKS)

- a) Discuss the factors that predispose animals to bracken fern poisoning. (10 marks)
- b) Name the toxin found in cassava and the clinical manifestations of the toxin in an animal (5 marks)