



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2022/2023 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER**

**SCHOOL OF NATURAL RESOURCES AND  
TOURISM AND HOSPITALITY**

**BACHELOR OF ANIMAL HEALTH AND  
PRODUCTION**

**COURSE CODE: AHP 3105-1**

**COURSE TITLE: PHARMACOLOGY AND  
TOXICOLOGY**

**DATE: 7TH DECEMBER, 2022**

**TIME: 1100-1300**

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**INSTRUCTIONS TO CANDIDATES**

Answer **ALL** questions in section **A** and any other **THREE** in section **B**.

*This paper consists of 2 printed pages. Please turn over*

***Answer all questions (120 Marks)***

1. a) Differentiate the following paired terms:
  - i) Pharmacodynamics and Pharmacokinetics (5 marks)
  - ii) Bactericidal and Bacteriostatic (5 mark)
  - iii) Toxicology and adverse effects (5 mark)
  - iv) Half-life and Minimum inhibitory concentration (5 mark)
  - iv) Antibiotic and Antibacterial (5 mark)
2. a) Explain the factors that influence the rate of drug distribution in an animal body. (5 marks)
- b) Give **FIVE** possible side effects of drugs. (5 marks)
- c) Outline the rationale for choice of drugs to administer to a patient. (10 marks)
3. Discuss penicillins under the following headings. (5 marks each)
  - a) Duration of action
  - b) Mode of action
  - c) Routes of administration
  - d) Metabolism
  - e) Excretion
4. Discuss **FIVE** listed routes of drug administration. (20 marks)
5. Discuss the importance of drug antagonism. (20 marks)
6. a) Explain the importance of ethnoveterinary medicine. (10marks)
- b) Discuss the toxic effects of two named antimicrobials. (10 marks)

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