



KENYATTA UNIVERSITY
SUPPLEMENTARY/SPECIAL EXAMINATIONS 2020/2021
EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
(ANIMAL HEALTH AND PRODUCTION)

KAS 306: PHARMACOLOGY

OCTOBER, 2021

TIME: 2 HOURS

INSTRUCTIONS:

Answer ALL Questions in Section A and ANY TWO Questions in Section B.

SECTION A: 40 MARKS

1. Explain the meaning of the following terms: (5 marks)
 - a) Pharmacy
 - b) Pharmacology
 - c) Pharmacokinetics
 - d) Pharmacodynamics
 - e) Pharmacotherapeutics
2. Explain the meaning and importance of 'Drug withdrawal period.' (5 marks)
3. Explain with examples, the differences between generic name, chemical name and brand name of a drug. (5 marks)
4. Explain the important roles of the following components of a drug and give an example of each.
 - a) Active ingredient
 - b) Non-active ingredient(5 marks)
5. Explain three possible adverse effects of animal health drugs on human beings. (5 marks)
6. Explain side effects of aminoglycoside antibiotics on animals. (5 marks)
7. Give five (5) characteristics that are desirable in an anthelmintic. (5 marks)
8. Explain the use of antihistamines in animal health practice. (5 marks)

SECTION B: 30 MARKS

9. Discuss the use of drugs for treatment and control of African animal trypanosomosis in Kenya. (15 marks)
10. With examples, discuss the main properties and the use of the following classes of drugs in animal health practice.
- a) Penicillins (10 marks)
 - b) Cephalosporins (5 marks)
11. Describe the pharmacological methods for the control of the ovarian cycle. (15 marks)