



# KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020

SUPPLEMENTARY/SPECIAL EXAMINATION FOR THE DEGREE OF  
BACHELOR OF SCIENCE IN ANIMAL HEALTH AND PRODUCTION

KAS 306: PHARMACOLOGY

DATE: THURSDAY, 14<sup>TH</sup> JANUARY 2021

TIME: 4.30 P.M. – 6.30 P.M.

## 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) Drug action
  - b) Drug response
  - c) Pharmacokinetics
  - d) Bioavailability
  - e) Withdrawal period
2. Explain with examples, the differences between generic name, chemical name and brand name of a drug. (5 marks)
3. a) Explain the active ingredient and non-active components of a drug and give an example for each.  
b) Explain the importance of each of these drug components. (5 marks)
4. Explain three adverse effects of animal health drugs on human beings. (5 marks)
5. Explain the side effects of aminoglycoside antibiotics on animals. (5 marks)
6. Give five (5) characteristics that are desirable in an anthelmintic. (5 marks)
7. Explain the use of antihistamines in animal health practice. (5 marks)
8. Explain the treatment of ketosis in cattle. (5 marks)

**SECTION B: Answer any TWO questions in this section (30 marks)**

9. Discuss the main properties and use of penicillins and cephalosporins in animal health practice and examples for each.
10. (a) Discuss the importance of controlling the ovarian cycle. (5 marks)  
(b) Describe briefly the pharmacological methods used for the control of the ovarian cycle. (10 marks)
11. Discuss the use of drugs for treatment and control of African animal trypanosomosis in Kenya. (15 marks)