



KISII UNIVERSITY

UNIVERSITY EXAMINATIONS

**FOURTH YEAR EXAMINATION FOR THE AWARD OF THE
DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE &
TECHNOLOGY**

**FIRST SEMESTER 2022/2023
(SEPTEMBER - DECEMBER, 2022)**

ANHE 423: VETERINARY PARASITOLOGY & PARASITIC DISEASES

STREAM: Y4 S1

TIME: 2 HOURS

DAY: MONDAY, 3:00 P.M – 5:00 P.M

DATE: 19/12/2022

INSTRUCTIONS:

- 1. Do not write anything on this question paper.**
- 2. Answer ALL Questions in Section A (Compulsory) and any other TWO Questions in section B.**

SECTION A (30 MARKS)

QUESTION ONE

- a) Outline the general classification of parasites in farm animals (3 marks)
- b) Briefly list the morphological differences between the tsetse flies and ticks (3 marks)
- c) Briefly explain the effects of parasitism in farm animals (3 marks)
- d) List three control measures against ticks in large scale cattle farming (3marks)
- e) Outline any two pathognomonic clinical signs of the following diseases
 - (i) Anaplasmosis in cattle (3marks)
 - (ii) Babesiosis in cattle (3marks)
- f) Explain the general life cycle of *Theirelia parva parva*. (3 marks)
- g) Outline the general control the liver flukes in a farm. (3 marks)
- h) Briefly explain the components of a host-parasite relationship for a successful parasitism to occur. (3 marks)
 - i) State the specific signs noted in a case of severe *hemonchus contortus* infestation in a lamb. (3marks)

SECTION B

QUESTION TWO

- a) Outline the life cycle of *trypanasoma congolensi* (5 marks)
- b) Outline the clinical signs of trypanosomiasis in cattle (5 marks)
- c) List (5) five control measures that can be used to control tsetse flies.
(5 marks)
- d) Using examples classify the *Glossina spp.* Depending on their habitat
(5 marks)

QUESTION THREE

Describe the pathogenesis, transmission, clinical signs, diagnosis and control of cowdriosis (heartwater) in cattle and Nairobi sheep disease in sheep. (20 marks)

QUESTION FOUR

Discuss the sarcoptes mange in cattle under the following subheading

- i) Morphology
- ii) Life- cycle
- iii) Pathogenesis and clinical effects
- iv) Diagnosis and treatment (20 marks)