CHUKA **UNIVERSITY**

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE

ANHE 0114: ANIMAL PHYSIOLOGY

STREAMS: DIPLOMA ANHE **TIME: 2 HOURS**

DAY/DATE: MONDAY 16/12/2024 **8.30 A.M – 10.30 A.M.**

INSTRUCTION:

- *Answer ALL Questions in Section A and any TWO in Section B.*
- *DO NOT WRITE anything on the question paper.*

SECTION A (30 MARKS)

QUESTION ONE

(a) Giving examples in each case, distinguish between negative and positive feedback loops of homeostasis (4 Marks)

(b) Highlight five (5) functions of urinary system (5 Marks)

(c) State four (4) that affect respiratory rate in animals (4 Marks)

(d) State the general functions of accessory sex glands in males (4 Marks)

(e) State five (4) general signs of oestrus in ruminants (4 Marks)

(f) State four (4) functions of agonistic behavior (aggression) in animal life (4 Marks)

(g) Distinguish between simple reflex and conditioned reflex arc (5 Marks)

SECTION B: ATTEMPT ANY 2 QUESTIONS (40 MARKS)

QUESTION TWO

(a) With the help of a diagram, briefly describe mammalian cell structure and function. (10 Marks)

(b) With the help of an illustration, briefly discuss the milk let down reflex in cow. (10 Marks)

QUESTION THREE

(a) Describe the physiological processes of egg-laying in chicken (10 Marks)

(b) Discuss the mechanisms of regulation of body temperature by the integumentary system (10 Marks)

QUESTION FOUR

(a) Describe the cellular constituents of mammalian blood (7 Marks)

(b) Discuss the hypothalamic pituitary gonadal axis as a regulatory mechanism in production of reproduction hormones in the male (10 Marks)

(c) Briefly describe three (3) stages of parturition in cow (3 Marks)