



***“Investing in Africa’s future”***

**COLLEGE OF HEALTH, AGRICULTURE AND NATURAL  
SCIENCES**

**NAAS 111: ANATOMY AND PHYSIOLOGY OF FARM ANIMALS**

**END OF FIRST SEMESTER FINAL EXAMINATIONS**

**NOVEMBER/DECEMBER 2022**

**LECTURER: DR. S. CHAKEREDZA**

**DURATION: 3 HOURS**

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**INSTRUCTION**

Answer All Questions from Section A

And Answer Any Three Questions from Section B

**Section A (answer all, possible marks 40)**

1. Define the terms Anatomy and Physiology [6]
2. Define the term "Homeostasis" [6]
3. Differentiate between microscopic and gross anatomy [6]
4. Define the terms medial, lateral, proximal and distal to the animal [8]
5. The integumentary system performs what functions [8]
6. What is the difference between the epidermis, dermis and subcutaneous layer in the skin? [6]

**Section B (Choose any 3, maximum possible marks 60)**

7. Muscles move by extensors, flexors adductors and abductors. Explain these actions and give examples of each [20]
8. Muscle contraction occurs as a result of a process known as a sliding filament theory. Briefly describe what happens in this process [20]
9. What are the differences between ruminant and non-ruminant animals in feed utilization paying special reference to their anatomical differences[20]
10. Briefly give a description of urine excretion. [20]
11. Describe the function of the circulatory system throughout the animal body. [20]

**END OF EXAMINATION PAPER**