



“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 2023

LECTURER: DR. S. CHAKEREDZA

DURATION: 3 HOURS

INSTRUCTION

Answer All Questions from Section A

And Answer Three Questions from Section B

Section A (answer all, possible marks 40)

1. List any five organ systems we are concerned with in Anatomy and Physiology.
[5]
2. Draw and label anterior, posterior, dorsal and ventral parts to an animal. [8]
3. Looking at an animal skeletal system, which 6 categories can you partition it into?
[6]
4. The animal skeleton is divided into the axial skeleton and appendicular skeleton. List the components of each of these two parts. [8]
5. Skeletal muscles are divided into functional groups, flexors, extensors, abductors and adductors. Give an example of each. [8]
6. What are the components of the blood? [5]

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

1. Describe the interaction in the circulatory system involving the heart, arteries, arterioles, capillaries, venules and veins. [20]
2. Muscle contraction occurs as a result of a process known as a sliding filament theory. Briefly describe what happens in this process. [20]
3. What are the differences between ruminant and non-ruminant digestive system and discuss also on the implications of feedstuffs of each? [20]
4. Briefly give a description of urine excretion. [20]
5. Briefly describe the endocrinal role of the main 10 hormones involved in the animal body. [20]

END OF EXAMINATION PAPER