



“Investing in Africa’s future”

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

NAAS 111: ANATOMY AND PHYSIOLOGY OF FARM ANIMALS

END OF SECOND SEMESTER FINAL EXAMINATIONS

AUGDEC 2021

LECTURER: Dr. S. Chakeredza

DURATION: 5 HRS

INSTRUCTION

Choose and Answer **ONE** question Only

All Questions Carry Equal Marks (100)

Question 1

1. Define the following as they relate to animal anatomy
 - a) Dorsal. [5]
 - b) Ventral [5]
 - c) Anterior [5]
 - d) Posterior [5]
 - e) Lateral [5]
 - f) Proximal [5]
2. Describe how Muscles are categorized and where are they found on the animal [25]
3. Describe the structure of the skin and its functions [45]

Question 2

4. Given the skeleton articulated structure, which sections is it divided into [15]
5. Write short notes on the appendicular skeleton [5]
6. Where are long bones, flat bones, short bones and irregular bones found [15]
7. Describe what makes up the bones [15]
8. Explain the differences in anatomy between the digestive system of a rabbit and sheep [20]
9. Describe the four connective tissues and what they do [15]
10. Describe the digestion of proteins, carbohydrates and fats in monogastric animals [15]

Question 3

11. Briefly describe the heart anatomy, its major parts and discuss how blood flows into the heart, through it and out of it [20]
12. Describe the functions of the blood [10]
13. Compare and contrast the structure and functions of arteries and veins [20]
14. Explain why the left ventricle of a mammalian heart is more muscular compared to the right ventricle [10]
15. Discuss the functions of respiratory system and indicates how the system achieves homeostasis [15]
16. Briefly describe the process of urine formation in the nephron [10]
17. Discuss in detail transportation and exchange in the body of oxygen (O₂) and Carbon Dioxide (CO₂) [15]

END OF EXAMINATION PAPER