



*"Investing in Africa's future"*

**COLLEGE OF HEALTH AGRICULTURE AND NATURAL  
SCIENCES**

**NAAS 404: PASTURE AND RANGE MANAGEMENT**

**END OF FIRST SEMESTER EXAMINATION**

**NOVEMBER 2025**

**LECTURER: DR. S. CHAKEREDZA**

**DURATION: 3 HRS**

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**INSTRUCTIONS**

Answer all questions in Section A and any **three** from Section B

Section A carries **40 marks** and each question in section B carries **20 marks**.

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

### **Question 1**

- a. Explore the concept of the “carrying capacity” of a rangeland. [4]
- b. Differentiate the terms “pasture” and “rangeland”, highlighting differences in terms of management and use. [6]
- c. Explain the concept of forage quality, highlighting three factors that influence it. [10]
- d. Describe rotational grazing and its benefits in smallholder farming systems. [10]
- e. Explore the rationale of establishing legumes pastures. [10]

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

### **Question 2**

Discuss agroforestry and its potential role in range and pasture management. [20]

### **Question 3**

Write an essay on the underlying causes, proximate causes and policy arena issues relating to soil erosion in a typical sub-Saharan smallholder area. [20]

### **Question 4**

Explore the advantage of including legumes in pastures for ruminant livestock nutrition. [20]

### **Question 5**

Discuss with the help of a graph the impact of stocking rate on animal performance. [20]

### **Question 6**

Discuss with the aid of diagrams, the relationship of grazing pressure and animal performance. [20]

**END OF EXAMINATION PAPER**