



“Investing in Africa’s future”

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

NAAS 304: PASTURE AND RANGE MANAGEMENT

END OF FIRST SEMESTER FINAL EXAMINATIONS

NOVEMBER/DECEMBER 2022

LECTURER: DR. S. CHAKEREDZA

DURATION: 3 HOURS

INSTRUCTION

Answer All Questions from Section A

And Answer Any Three Questions from Section B

Section A (answer all, possible marks 40)

1. Write concise notes on the following:
 - i. Carrying capacity [5]
 - ii. Stocking rate [5]
 - iii. Grazing Cycle [5]
2. What is the rationale of putting legumes on pasture? [5]
3. Morphology of grasses
 - a) With the aid of a plant diagram show: [20]
 - i. Rachis
 - ii. Spikelet
 - iii. Peduncle
 - iv. Culm node
 - v. Blade
 - vi. Sheath

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

4. Define what agroforestry is about and discuss its potential role in range and pasture management. [20]
5. 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]
6. What is the advantage of including legumes in pastures? Discuss with the knowledge of ruminant livestock why this is so. [20]
7. Discuss with the help of a graph the impact of stocking rate on animal performance. [20]
8. Discuss with the aid of diagrams, the relationship of grazing pressure and animal performance. [20]

END OF EXAMINATION PAPER