

"Investing in Africa's future"

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

NAAS 402: RUMINANT ANIMAL PRODUCTION

END OF SECOND SEMESTER FINAL EXAMINATIONS

APRIL 2022

LECTURER: DR. S. CHAKEREDZA

DURATION: 3 HOURS

INSTRUCTION

- 1. Answer All Questions in Section A, and
- 2. Answer Amy Three Questions from Section B

Section A (answer all, possible marks 40)

- Ruminants and nonruminants are different. What are the major differences?[2]
 List four species of each kept by smallholder farmers of ruminant and nonruminant animals. [6]
 Define what the following terms mean in sheep and goat production: whether, hogget, Chevon, Teaser and Simmer. [10]
 When grading beef carcasses, which possible grades are given? [10]
 How does the government of Zimbabwe set as requirements for milk to be processed (statutory requirements)? [10]
 How do you formulate a concentrate fraction to achieve 12 % crude protein
 - (CP) using soyabean meal (45 % CP) and maize meal (9.6 % CP)?

[2]

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

- Discuss the Proximate Scheme of Feed Analysis highlighting its shortcomings and what are the proposals for newer formulation systems. [20]
 Write an essay tracing the liquid milk value-chain. [20]
- Discuss the principles of marketing of pen fattened beef cattle using the 4Ps approach. [20]
- 4. Discuss the factors that affect the choice of sheep or goat production system.

[20]

 Given the seasonal changes in feed quality of vegetation in tropical regions, discuss the measures you would take in looking after your ruminant livestock to enhance productivity. [20]

END OF EXAMINATION PAPER

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