"Investing in Africa's future"

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

AAS 302: RUMINANT ANIMAL PRODUCTION

END OF SECOND SEMESTER FINAL EXAMINATIONS

MAY 2021

LECTURER: DR. S. CHAKEREDZA

DURATION: 7 HOURS

INSTRUCTION

Choose and Answer **ONE** question Only

All Questions Carry Equal Marks (100)

Question 1

a. Discuss the proximate analysis scheme for livestock feed analysis.   [25]

b. What are the shortcomings of the Proximate Feed Analysis scheme?   [15]

c. How would you recommend improvements to the proximate feed analysis? [20]

d. Formulate a concentrate for your ruminant animal with 14% Crude Protein using the Pearson Square and give the values you will use in the final mixture of Soyabean meal (49%CP) and maize meal (9.6%). Please show your working.   [25]

e. How would do you incorporate a ration with more than two ingredients?   [15]

Question 2

a. What are the factors to consider before in getting into beef production?   [30]

b. Discuss artificial insemination (AI) giving also the advantages and disadvantages of the system.   [25]

c. What are the advantages of pen fattening?   [20]

d. Discuss five methods of marketing beef cattle outlining the advantages and disadvantages of each method.   [25]

Question 3

a. What are the factors affecting the sheep and goat production systems?   [25]

b. Discuss the traits of economic importance in goat and sheep production.   [30]

c. Identify and explain critical management targets of ewes/does.   [20]

d. Discuss pen finishing of lambs and kids.   [25]

END OF EXAMINATION PAPER