



"Investing in Africa's Future"

COLLEGE OF HEALTH AGRICULTURE AND NATURAL SCIENCES

AAS 304: RANGE AND PASTURE MANAGEMENT

END OF 1ST SEMESTER EXAMINATIONS

NOV/DEC 2017

LECTURER: MR S. WASHAYA

DURATION: 3 HRS

INSTRUCTIONS

1. Do Not Write Your Name On The Answer Sheets
2. Use Answer Sheets Provided
3. Begin Your Answer For Each Question On A New Page
4. Credit Is Given For Neat Presentation Of Answers

AAS 304: Range and Pasture Management

3 HOURS (100 Marks)

INSTRUCTIONS

Answer any **FIVE** questions.

Each question carries **20 marks**.

1. Using diagrams illustrate a plant phytomer, floret and spikelet. [20 marks]
2. (a) Briefly discuss the importance of tillers [10 marks]
(b) State the importance fodder crops in rangeland animal production [10 marks]
3. Discuss the process of veld condition assessment [20marks]
4. (a) Distinguish ecosystem structure from ecosystem function [10 marks]
(b) Describe the vegetation type in Zimbabwe and highlight its regionalism [10 arks]
5. Describe why ruminant animal protein and energy nutrition is crucial [20 marks]
6. Given the following information produce a herd composition.

Class	Number	LSE	
Bulls	4% of breeding females	1.1	
Cows	100	0.9	
Replacement rate	20%	0.7	
Cull cows	20%	0.9	
Calving rate	85%		
Mortality	2 %		
Weaning rate	75%		
Calves		0.2	
Yearlings		0.5	
2 year old		0.8	[20 marks]

End of Exam Paper