



“Investing in Africa’s future”

DEPARTMENT OF AGRICULTURE AND NATURAL SCIENCE

AAS 304: RANGE AND PASTURE MANAGEMENT

END OF FIRST SEMESTER EXAMINATIONS

November/December 2019

LECTURER: WASHAYA S

DURATION: 3 HOURS

INSTRUCTIONS

Answer any **FIVE** questions

All questions carry equal marks (20).

DO NOT repeat material.

Write legibly.

RANGE AND PASTURE MANAGEMENT**3 HOURS (100 Marks)****Dec 2019****INSTRUCTIONS**

Answer any **FIVE** questions. Each question carries **20 marks**.

1. (a) Define the following terms:
 - i. Range [2 marks]
 - ii. Ecology [2marks]
 - iii. Autecology [2marks]
 - iv. Stock intensity [2marks]
 - v. Stocking rate [2marks](b) Discuss the reasons for rangeland deterioration [10 marks]
2. (a) Describe the 4 principles of ecosystem organization and indicate mechanism that allow for ecosystem self-development [12 marks]
(b) State the importance of grasses in rangelands [8 marks]
3. Discuss the prerequisites for rumination and illustrate the possible consequences of violating these prerequisites [20marks]
4. (a) Illustrate the processes involved in plant succession. [10 marks]
(b) Outline the differences between grasses and legumes. [10 marks]
- 5 (a) Describe in detail the three main veld types found in Zimbabwe [15 marks]
(b) Briefly explain carrying capacity and its significance to veld management [5 marks]
6. Write short notes on the five principles of veld management [20 marks]

End of Exam Paper