

**2<sup>nd</sup> SEM. 2005/2006**

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**UNIVERSITY OF SWAZILAND  
FACULTY OF AGRICULTURE  
FINAL EXAMINATION PAPER**

**PROGRAMME : DIPLOMA IN AGRICULTURE II AND  
DIPLOMA IN AGRICULTURAL  
EDUCATION II**

**DEPARTMENT : ANIMAL PRODUCTION AND HEALTH**

**TITLE OF PAPER : RANGE AND RANCH MANAGEMNT**

**COURSE CODE : APH 203**

**TIME ALLOWED : TWO (2) HOURS**

**INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS**

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN  
GRANTED BY THE CHIEF INVIGILATOR**

**QUESTION 1**

Describe the foraging behavior of goats and sheep. Discuss the factors that affect their diet selection. (25 Marks)

**QUESTION 2**

The frequent choice of the wheel point over other sampling devices in the assessment of herbaceous layer of rangelands is because of a combination of preferred attributes. It is also recognized that wheel point has drawbacks. Discuss these attributes and drawbacks. (25 Marks)

**QUESTION 3**

Grazing pressure has undoubtedly intensified the problems in the rangelands of Swaziland. Such increase in livestock in the semi-arid and arid rangelands of Africa is widely known to cause changes in soil nutrients, vegetation structure, production, composition and productivity. Discuss the adverse effects of overgrazing on soil, vegetation and the grazing animal itself. (25 Marks)

**QUESTION 4**

Define bush encroachment. Discuss the control methods of bush encroachment. (25 Marks)

**QUESTION 5**

Describe the factors you need to consider in developing a commercial beef cattle ranch. (25 Marks)