

NATIONAL UNIVERSITY OF LESOTHO

BSC & BA EXAMINATIONS

PG 4341: PRINCIPLES OF RANGE MANAGEMENT

January 2024

Marks: 100

Time: 3 Hours

Instructions: Answer any four questions

Question 1

- (a) Briefly explain rangeland management. (5)
(b) Discuss four key principles of rangeland management. (20)

[25]

Question 2

- (a) Explain short term and long-term effects of grazing on vegetation. (5)
(b) Briefly explain the following grazing systems as used in range management.
(i) Rest rotation grazing system. (10)
(ii) Continuous grazing system. (10)

[25]

Question 3

- (a) Briefly explain rangeland ecology. (5)
(b) Write short notes on the following veld types.
(i) Sourveld. (10)
(ii) Sweetveld (10)

[25]

Question 4

Discuss different indicators used to gauge the attributes of soil/site stability, hydrologic function and biotic integrity. **[25]**

Question 5

Discuss the photosynthetic pathway in C3 plants, C4 plants and CAM plants. **[25]**

Question 6

Discuss five different values of rangelands. **[25]**