

NATIONAL UNIVERSITY OF LESOTHO
BSC & BA SUPPLEMENTARY EXAMINATIONS
PG 4341: PRINCIPLES OF RANGE MANAGEMENT

August 2023

Marks: 100

Time: 3 Hours

Instructions: Answer any four questions

Question 1

- (a) Explain the following grazing systems
- (i) Continuous grazing system (10)
 - (ii) Rest rotation grazing system (10)
- (d) Mention five vegetation attributes that are measured during rangeland inventory and monitoring studies (5)

[25]

Question 2

- (a) Mention five characteristics of the following rangeland types
- (i) Grassland (5)
 - (ii) Savanna and woodland (5)
 - (iii) Desert (5)
 - (iv) Tundra (5)
- (b) State five characteristics of a rangeland (5)

[25]

Question 3

- (a) Explain how energy is used in plants (10)
- (b) Describe five factors that affect photosynthesis process (10)
- (c) Explain two different feeding strategies of herbivores (5)

[25]

Question 4

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

Question 5

Discuss five different factors that causes rangeland degradation **[25]**

Question 6

- (a) State five forces that threaten the sustainability and ecosystem integrity of the rangelands (5)
 - (b) Discuss any four principles of range management (20)
- [25]**