

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DIPLOMA IN ANIMAL HEALTH  
PRODUCTION**

**NARE 0112: PRINCIPLES OF RANGE MANAGEMENT**

**STREAMS: DIP. ANHE Y1S2**

**TIME: 2 HOURS**

**DAY/DATE: MONDAY 08/04/2024**

**2.30 P.M – 4.30 P.M.**

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**INSTRUCTIONS:**

- Answer ALL questions in SECTION A and any TWO in SECTION B.
- Do NOT write anything on the question paper.

**SECTION A: 30 MARKS**

1. Briefly explain the following terms applicable in range management. (4 marks)
  - (a) Rangeland
  - (b) Native Species
  - (c) Ecological Niche
  - (d) Palatability
2. Describe 6 importance of rangelands in Kenya. (6 marks)
3. List four principles of range management. (4 marks)
4. Describe the physiological adaptation of rangeland vegetation to grazing. (6 marks)
5. Describe six range management techniques. (6 marks)
6. Discuss instances when rangeland fertilization may be required. (4 marks)

**SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)**

7. (a) Discuss six indicators of range conditions. (12 marks)

- (b) Discuss the role of range management in addressing climate change. (8 marks)
8. Discuss the major rangeland resources of the world with emphasis on East Africa. (20 marks)
9. (a) Discuss fire as a range management tool. (10 marks)
- (b) Discuss the various challenges facing rangelands and the possible solutions to these challenges. (10 marks)
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