

NARE 00112

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF  
CERTIFICATE IN ANIMAL HEALTH**

**NARE 00112: PRINCIPLE OF RANGE MANAGEMENT**

**STREAMS: CERT. ANSC (Y1 S2)**

**TIME: 2 HOURS**

**DAY/DATE: THURSDAY 9/04/2020**

**11.30 A.M - 1.30 P.M.**

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**INSTRUCTIONS**

1. Attempt all questions in section A and any Two in section B
2. Do not write anything on the question paper

**SECTION A (30 MARKS)**

1. Briefly explain the following concepts:
  - (a) Carrying capacity [2 Marks]
  - (b) Rangelands [2 Marks]
  - (c) Palatability [2 Marks]
  - (d) Succession [2 Marks]
  - (e) Rotational grazing [2 Marks]
2. Briefly explain 3 uses of rangeland resources. [6 Marks]
3. Outline four rangeland vegetation types. [4 Marks]

4. State 6 environmental factors influencing distribution of fauna and flora in rangelands. [6 Marks]

5. List four examples vegetation in rangeland ecosystem [4 Marks]

**SECTION B (40 MARKS)**

3. (a) Explain five major rangeland resources in Arid and Semi-arid areas. [10 Marks]

(b) Citing examples elaborate five major challenges in Arid and Semi-Arid areas. [10 Marks]

4(a) Explain six adaptation of plants in arid environment. [12 Marks]

(b) Discuss four criteria for classification of ecological zones [8 Marks]

5. Discuss range management strategies employed in Arid and Semi-Arid areas. [20 Marks]