

CHUKA

UNIVERSITY



UNIVERSITY EXAMINATIONS

SPECIAL EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL
HEALTH AND PRODUCTION

NARE 00112: PRINCIPLES OF RANGE MANAGEMENT

STREAMS: CERT. ANHE

TIME: 2 HOURS

DAY/DATE: MONDAY 16/11/2020

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- Attempt all questions in section A and any TWO in section B
- Do not write anything on the question paper

SECTION A (30 MARKS)

1. Write short notes on the following terms:

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|-----------------------|-----------|
| (a) Rangelands | (2 marks) |
| (b) Carrying capacity | (2 marks) |
| (c) Ecosystem | (2 marks) |
| (d) Range management | (2 marks) |
| (e) Ecology | (2 marks) |

2. List four traditional rangeland management techniques applied in range management (4 marks)

3. Highlight five ways in which plants are adapted in arid environment (6 marks)

4. List five goals of range management (5 marks)

5. Outline five plant communities in rangeland (5 marks)

SECTION B (40 MARKS)

6. (a) Explain four significances rangeland resources in Arid and semi-arid areas (8 marks)
(b) Discuss five range management strategies employed in Arid and semi-Arid (ASALS) areas (12 marks)
7. (a) With examples discuss three ecosystem services provided by rangeland. (8 marks)
(b) Citing examples elaborate major challenges facing rangelands in Kenya (12 marks)
8. (a) with examples explain five rangeland vegetation types (10 marks)
(b) Explain basis for the classification of ecological zones (10 marks)
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