

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD DEGREE OF
BACHELOR OF SCIENCE NATURAL RESOURCE MANAGEMENT

NARE 211: PRINCIPLES OF RANGE MANAGEMENT

STREAMS: BSC.NARE YEAR 2 S2

TIME: 2 HOURS

DAY/DATE: MONDAY 20/04/2020

2.30 P.M - 4.30 P.M.

INSTRUCTIONS:

- Answer Questions in Section A and any Two in section B
- Do not write on the Question paper.

SECTION A. 30 MARKS

- Q1. Briefly explain the following terms applied in range management [6 Marks]
(a) Range Management
(b) Synecology
(c) Carrying capacity
(d) Moisture Index
(e) Stocking rate
- Q2. Explain the goals of range management [6 Marks]
- Q.3. Using an illustration, explain the gross productivity and net productivity [6 Marks]
- Q.4. Briefly explain the implications of defoliation on grazing resources. [6 Marks]
- Q.5. Describe the application of range science principles in range resource management. [6 Marks]

SECTION B. 40 MARKS

Q.6. Discuss factors that influence plant palatability and preference in range areas.[20 Marks]

Q.7. Discuss the grazing management practices for optimal livestock production in rangelands.
[20 Marks]

Q.8. Discuss the interventions that can be adopted in rangelands to enhance rangelands
productivity. [20 Marks]