

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

NARE 211: PRINCIPLES OF RANGE MANAGEMENT

STREAMS: BSC ANSI Y2S2

TIME: 2 HOURS

DAY/DATE: THURSDAY 06/12/2018

11.30 A.M – 1.30 P.M

INSTRUCTIONS

- Answer all questions in section A and any other two questions in section B
- Do not write on the question paper

SECTION A: ANSWER ALL QUESTIONS

1. List the goals of range management. [6 marks]
2. Explain the criteria used in physiognomic system of range land classification. [6 marks]
3. Highlight the causes of poor animal distribution and subsequent management options on rangeland. [6 marks]
4. Explain the effects of defoliation on total available Carbohydrate (TAC) [6 marks]
5. Briefly explain what relative preference index is. How can it be used in the management of range forage resources? [6 marks]
6. Briefly explain the following concepts as applied in range management. [6 marks]
 - (i) Palatability
 - (ii) Multiple resource use
 - (iii) Preference

SECTION B: ANSWER ANY TWO QUESTIONS

7. Discuss the effects of rainfall on rangeland primary productivity. [20 marks]
8. Discuss the special adaptations used by semi –arid plants to survive or overcome moisture stress. [20 marks]

9. Fire can be a good servant if managed properly and a bad master if not well managed.
Discuss. [20 marks]
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