

**CHUKA**



**UNIVERSITY**

**COLLEGE**

**UNIVERSITY EXAMINATIONS**

**THIRD YEAR EXAMINATION FOR THE AWARD OF  
DIPLOMA IN ECOTOURISM AND HOSPITALITY MANAGEMENT**

**TOHM 0341: RANGE ECOLOGY AND MANAGEMENT**

**STREAM: DIP. (ECOTOURISM) Y3S1**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 2/8/2011**

**11.30 A.M. – 1.30 P.M.**

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**INSTRUCTIONS:**

Answer all the questions in Section A AND only TWO questions in Section B.

**SECTION A: (30 MARKS)**

1. On the basis of rangeland vegetation dynamics and grazing systems, define and briefly describe the following terminologies: [16 marks]
  - (i) Decreases
  - (ii) Invaders
  - (iii) Increases
  - (iv) Rangeland carrying capacity
  - (v) Animal unit equivalents
  - (vi) Differed rotation grazing
  - (vii) Continuous grazing
  - (viii) Potential evapotranspiration
2. List and discuss the factors affecting effectiveness of rainfall in the Kenyan rangelands. [6 marks]
3. Clearly describe four methods for range improvement. [8 marks]

**SECTION B: (CHOOSE TWO) 40 MARKS**

4. Define range condition and then discuss the four levels of range conditions. [20 marks]

5. Identify the causes and consequences of desertification. [20 marks]
6. (i) Identify and discuss the six ecological zones in East Africa. [16 marks]
- (ii) What are the main land use systems for each ecological zone?  
[4 marks]
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