



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

FOURTH YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF ARTS IN URBAN & REGIONAL PLANNING WITH INFORMATION TECHNOLOGY (MAIN CAMPUS)

NPL 409: RANGELAND MANAGEMENT

Date: 12th April, 2012

Time: 9.00 – 11.00 a.m.

INSTRUCTIONS:

- ◆ Answer QUESTION ONE and any other TWO questions.

NPL 409: RANGELAND MANAGEMENT

1. Offer a brief explanation of the following theories and concepts, clearly highlighting their relevance to rangeland management. **30 Marks**
 - a. Ecosystems theory
 - b. Keystone species/ predation theory
 - c. Island biogeography
 - d. Intermediate disturbance hypothesis
 - e. Hierarchy theory
2. Discuss the major objectives of rangeland management **20 Marks**
3. Discuss the environmental impacts of rangeland degradation. **20 Marks**
4. Discuss the main interventions for conserving degraded rangelands. **20 Marks**
5. Discuss the main natural systems of the earth that are of relevance to rangeland management. **20 Marks**
6. With the aid of a well-labelled diagram, discuss the concept of energy flow in a rangeland ecosystem. **20 Marks**