



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2015/2016**

**FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE  
DEGREE OF MASTERS OF SCIENCE IN BOTANY (PLANT  
ECOLOGY, PLANT PHYSIOLOGY AND BIOCHEMISTRY)**

**MAIN CAMPUS**

**SBT 820: RANGELAND ECOLOGY**

Date: 22<sup>nd</sup> April, 2016

Time: 8.30 - 11.30am

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**INSTRUCTIONS:**

- Answer ALL Questions in Section A and any other THREE in Section B.

**SECTION A: 30 Marks**

Q1a). Explain what you understand by range inventory, evaluation and monitoring with reference to rangeland ecology. (8 marks)

Q 1b). Explain stocking rate. (3 marks)

Q 1c). Describe grazing systems. (3 marks)

Q2. (a) Describe the major types of range plants. (10 marks)

(b) Describe the major functions of rangelands. (5 Marks)

**SECTION B: (30 marks)**

Q3. Discuss on tools of range improvement and management. (10 marks)

Q4. Explain desertification and its mitigations in rangeland ecosystems. (10 marks)

Q5. Discuss the adaptations of rangeland vegetations. (10 marks)

Q6. Discuss range condition and trend (10 marks)

Q7. Discuss grazing management. (10 marks)