



## **UNIVERSITY OF EMBU**

---

**2017/2018 ACADEMIC YEAR**

**SECOND SEMESTER EXAMINATIONS**

**FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN  
PLANT ECOLOGY**

**SBT 504: RANGELAND ECOLOGY**

**DATE: APRIL 12, 2018**

**TIME: 2:00 – 5:00 PM**

---

**INSTRUCTIONS:**

**Answer ANY FOUR Questions**

---

**QUESTION ONE (25 MARKS)**

Evaluate the importance of the following processes in rangeland ecosystems:

- a) Nutrient cycling (12½ marks)
- b) Plant succession (12½ marks)

**QUESTION TWO (25 MARKS)**

As a rangeland manager, demonstrate how you would ensure greater production.

**QUESTION THREE (25 MARKS)**

Discuss the contribution of national parks and game reserves in conservation of rangelands.

**QUESTION FOUR (25 MARKS)**

Discuss concepts associated with evaluating the status of rangeland resources, with reference to:

- a) Range site (12½ marks)
- b) Range trend (12½ marks)

**QUESTION FIVE (25 MARKS)**

Advise private rangeland owners on two approaches to use in determining the carrying capacity for their ranches.

**--END--**

