

UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER 2014

TITLE OF PAPER : **BIOLOGICAL RESOURCES MANAGEMENT**

COURSE CODE: **ERM 611**

TIME ALLOWED : **THREE HOURS**

INSTRUCTIONS :

- 1. ANSWER ANY FOUR QUESTIONS**
- 2. EACH QUESTION CARRIES TWENTY FIVE (25) MARKS**
- 3. WHEREVER POSSIBLE ILLUSTRATE YOUR ANSWERS WITH LARGE CLEARLY LABELLED DIAGRAMS**

SPECIAL REQUIREMENTS:

- 1. CALCULATORS (CANDIDATES MAY BRING THEIR OWN)**
- 2. GRAPH PAPER (ORDINARY)**

**THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE
INVIGILATORS**

QUESTION 1.

What is Restoration Ecology? Describe and discuss the approaches used in Restoration Ecology.

(25 Marks)

QUESTION 2.

Why has conservation biology emerged as a very important discipline? How is it related to resource management?

(25 Marks)

QUESTION 3.

Devise a strategy to effectively protect a rare, endemic and threatened species that is found on Swazi Nation Land.

(25 Marks)

QUESTION 4.

What is meant by the term "Sustainable use"? What factors need to be considered for the sustainable utilization of a biotic natural resource?

(25 Marks)

QUESTION 5.

Swaziland, like other countries in southern Africa is faced with the problem of alien invasive species. Discuss this problem detailing how these are introduced, why they are problematic and the level of success of control measures that have been put in place.

(25 Marks)

QUESTION 6.

What information do Scientists need for effective population level conservation?

(25 Marks)