

UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER 2009

TITLE OF PAPER : BIOLOGICAL SOURCES 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 role does ecological theory play in conservation?

(25 Marks)

QUESTION 2.

Describe and discuss sustainable use.

(25 Marks)

QUESTION 3.

Swazi Nation Land suffers from extinctions of a large number of antelope species. What ecological, legislative and social changes would you introduce to restore antelope species on Swazi Nation Land.

(25 Marks)

QUESTION 4.

What problems are brought about by alien invasive plant species? Using a named invasive plant species discuss these problems. In your discussion include strategies to fight the scourge of alien invasive plant species.

QUESTION 5.

List and discuss the categories of ecological information required for effective population level conservation efforts.

(25 Marks)

QUESTION 6.

What is meant by restoration ecology? Define and discuss fully. Your discussion should include, but is not limited to, the rationale for restoration ecology, its history and approaches.

(25 Marks)