

UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER 2017

TITLE OF PAPER : **BIOLOGICAL RESOURCES MANAGEMENT**

COURSE CODE: **BIO604**

TIME ALLOWED : **THREE HOURS**

- INSTRUCTIONS :
- 1. ANSWER QUESTION 1 AND ANY OTHER TWO QUESTIONS.**
 - 2. QUESTION 1 CARRIES FOURTY (40) MARKS AND EACH OF THE OTHER QUESTIONS CARRIES THIRTY(30) 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 (COMPULSORY).

What is meant by conservation biology? Discuss the role of conservation biology in the management of biodiversity and ecosystems in the context of Swaziland.

(40 Marks)

QUESTION 2.

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

(30 Marks)

QUESTION 3.

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

(30 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?

(30 Marks)

QUESTION 5.

Swaziland, like other countries in southern Africa is faced with the problem of unsustainable utilization of biodiversity. Discuss this problem employing relevant examples and suggest solutions to this problem.

(30 Marks)