

**UNIVERSITY OF SWAZILAND**

**MAIN EXAMINATION PAPER 2016/17**

**TITLE OF PAPER :** BIODIVERSITY CONSERVATION

**COURSE CODE :** BIO601-3.0

**TIME ALLOWED :** THREE HOURS

**INSTRUCTIONS :**

1. ANSWER QUESTION 1 AND ANY OTHER TWO QUESTIONS
2. WHEREVER POSSIBLE ILLUSTRATE YOUR ANSWERS WITH LARGE CLEARLY LABELLED DIAGRAMS

**SPECIAL REQUIREMENTS:** NONE

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

**QUESTION 1.**

For the effective conservation of biodiversity and its habitats in Swaziland a holistic approach should be adopted where all the stakeholders in the conservation and utilization of biodiversity play their respective roles effectively. Discuss this statement fully. Your discussion should name and describe the stakeholders and their roles in the utilization and conservation of the country's biodiversity and habitats.

**(40 Marks)**

**QUESTION 2.**

In the sustainable utilization of biodiversity/biological resources the biology of the species being utilized is a very critical consideration. Discuss this statement fully employing relevant examples.

**(30 Marks)**

**QUESTION 3.**

Write out a full discussion on the use of biodiversity as an indicator of environmental health and change.

**(30 Marks)**

**QUESTION 4.**

What information do scientists need for effective population level conservation?

**(30 Marks)**

**QUESTION 5.**

What problems are faced by small populations and what information is needed and used by conservation biologists in addressing these problems?

**(30 Marks)**