

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER 2014/15

TITLE OF PAPER: RESEARCH TECHNIQUES

COURSE CODE: ERM610

TIME ALLOWED: THREE HOURS

INSTRUCTIONS:

1. THE EXAMINATION HAS FIVE (5) QUESTIONS. ANSWER ANY THREE (3).
2. EACH QUESTION CARRIES 30 MARKS.
3. ILLUSTRATE YOUR ANSWERS WITH LARGE AND CLEARLY LABELLED DIAGRAMS WHERE APPROPRIATE.

SPECIAL REQUIREMENTS: NONE

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

QUESTION 1

Discuss in detail the concept of biodiversity assessment and elaborate on techniques which may be used to accomplish this. **[30 Marks]**

QUESTION 2

Explain how sterile techniques are utilized in tracking desired genes in the environment. **[30 Marks]**

QUESTION 3

Discuss the concept of “indicators” with regards to biodiversity monitoring. **[30 Marks]**

QUESTION 4

Discuss the application of molecular markers in conservation and management of plant germplasm. **[30 Marks]**

QUESTION 5

Describe and discuss the stages in the preparation of tissues for histological study. **[30 Marks]**