COURSE CODE: ERM610 (M) 2013/2014

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## **UNIVERSITY OF SWAZILAND**

## **MAIN EXAMINATION PAPER 2014**

**TITLE OF PAPER** 

**RESEARCH TECHNIQUES** 

**COURSE CODE:** 

ERM610

:

TIME ALLOWED

: THREE HOURS

**INSTRUCTIONS** 

1. THIS PAPER HAS FIVE (5) QUESTIONS

2. ANSWER ANY THREE (3) QUESTIONS

3. 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

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**QUESTION 1** 

Account for the need for assessment of biodiversity and discuss the various methods

which may be used for such.

[30 marks]

**QUESTION 2** 

Evaluate the concept of molecular markers in characterisation, rationalisation and

management of crop germplasm collections in resource-limited settings.

[30 marks]

**QUESTION 3** 

Suppose you are a policy-maker in Swaziland, devise and substantiate a check-list of

activities that would ensure sound ex-situ and in-situ biodiversity conservation and

monitoring platform.

[30 marks]

**QUESTION 4** 

Outline steps of how microbiologists isolate microbes of interest from the

environment. Elaborate on the sterile techniques utilised in this process.

[30 marks]

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## **QUESTION 5**

Describe and discuss the techniques that are used to prepare tissues for histological study.

[30marks]