

UNIVERSITY OF SWAZILAND  
DEPARTMENT OF BIOLOGICAL SCIENCES  
MAIN EXAMINATION PAPER MAY 2018

TITLE OF PAPER: LANSCAPE ECOLOGY

COURSE CODE: BIO 610

TIME ALLOWED: THREE HOURS

INSTRUCTIONS:

1. ANSWER ANY THREE QUESTIONS IN

THIS PAPER

2. 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

**ANSWER ANY THREE QUESTIONS IN THIS PAPER**

**Question 1**

Describe the different types of patches by showing how each form and the dynamics of their species composition.

**[Total marks = 30]**

**Question 2**

Discuss the impact of human land use on landscape mosaics and show how it can be reduced.

**[Total marks = 30]**

**Question 3**

Discuss the issue of scale in Landscape Ecology.

**[Total marks = 30]**

**Question 4**

Discuss how climate change could be a threat to landscape processes.

**[Total marks = 30]**

**END OF EXAMINATION PAPER**