

UNIVERSITY OF ESWATINI
DEPARTMENT OF BIOLOGICAL SCIENCES
MAIN EXAMINATION PAPER MAY 2020

TITLE OF PAPER: LANDSCAPE 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

Discuss the effect of heterogeneity on ecosystem processes and demonstrate how it can be included in landscape management.

[Total marks = 30]

Question 2

Discuss the issue of scale in landscape management/conservation.

[Total marks = 30]

Question 3

Discuss how bush encroachment could be a threat to landscape processes.

[Total marks = 30]

Question 4

A company called Tsheboeng Sugarcane Corporation wishes to establish a sugarcane plantation in the Kingdom of Eswatini. Discuss the potential impact that their planned sugarcane plantation may have on landscape processes and functioning.

[Total marks = 30]

END OF EXAMINATION PAPER