

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER 2014/15

TITLE OF PAPER: AFRICAN ECOLOGY AND CONSERVATION

COURSE CODE: ERM612

TIME ALLOWED: THREE HOURS

INSTRUCTIONS:

1. THE EXAMINATION HAS FOUR (4) 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 the various techniques available for designing protected area networks at a national or international level.

[30 Marks]

QUESTION 2

What is “macroecology”? Explain in detail using examples to illustrate your answer.

[30 Marks]

QUESTION 3

“There is no evidence to suggest that refugia existed in Africa”. Critically discuss and evaluate this statement.

[30 Marks]

QUESTION 4

What are MVP (Minimum Viable Population) and PVA (Population Viability Analysis)? What role do they play in conservation of biodiversity? Make sure that you provide detailed descriptions of how these two tools operate before you elaborate on their roles.

[30 Marks]