

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER 2016/17

TITLE OF PAPER: ECOLOGICAL TECHNIQUES II

COURSE CODE: BIO622

TIME ALLOWED: THREE HOURS

INSTRUCTIONS:

1. THE EXAMINATION HAS THREE (3) QUESTIONS. ANSWER ALL 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

What advances have been made in the past 20 years regarding the tracking of wildlife? Provide a general overview of the different telemetry (tracking) techniques and how they have improved over this period. Also discuss the improved data collection from the perspective of an ecologist/conservationist.

[30 marks]

QUESTION 2

“Museums are outdated institutions that are costly to run and should be disbanded”. Critically discuss this statement with respect to the value of museums in conservation and ecology.

[30 marks]

QUESTION 3

You are given E500,000 to select three new reserves to add to the protected area network of Swaziland. Explain how you would go about doing this from the collection of data, to the analysis and interpretation of the findings.

[30 marks]

END OF EXAMINATION PAPER