

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER 2017/18

TITLE OF PAPER: ECOLOGICAL TECHNIQUES II

COURSE CODE: BIO622

TIME ALLOWED: THREE HOURS

INSTRUCTIONS:

1. ANSWER ALL THREE (3) QUESTIONS.
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“Museums are outdated institutions that are costly to run and should be disbanded”.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**

Explain what goes into preparing a Population and Habitat Viability Analysis (PHVA), and what information is usually presented in the published report (i.e. the outcome of the process).

**[30 marks]**