

UNIVERSITY OF ESWATINI

FINAL EXAMINATION PAPER 2018/19

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“Museums are outdated institutions that are costly to run and should be disbanded”.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]