

UNIVERSITY OF ESWATINI
FACULTY OF SCIENCE
DEPARTMENT OF BIOLOGICAL SCIENCES
MAIN EXAMINATION 2019/2020 ACADEMIC YEAR

TITLE OF PAPER: BIODIVERSITY CONSERVATION

COURSE CODE: BIO 443

TIME ALLOWED: THREE HOURS

INSTRUCTIONS:

1. ANSWER ANY FOUR QUESTIONS IN THIS PAPER
2. START EACH QUESTION ON A NEW PAGE
3. ILLUSTRATE YOUR ANSWER 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.

Why do small populations go extinct? How can conservation be used to prevent the extinction of a small population?

(25 Marks)

QUESTION 2.

Swazi Nation Land suffers from extinctions of a large number of antelope species. What are the causes of these extinctions? What ecological, legislative and social changes would you introduce to restore biodiversity on Swazi Nation Land? You may use your home village as an example.

(25 Marks)

QUESTION 3.

List and discuss the categories of ecological information that are needed for effective population level conservation.

(25 Marks)

QUESTION 4.

Conservation biology is a crisis discipline. Write out a full discussion agreeing or disagreeing with this statement.

(25 Marks)

END OF EXAMINATION PAPER