

UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER 2019

TITLE OF PAPER : APPLIED ECOLOGY

COURSE CODE : BIO605

TIME ALLOWED : THREE HOURS

INSTRUCTIONS :

- 1. ANSWER ALL FOUR (4) QUESTIONS**
- 2. EACH QUESTION COUNTS FIFTY (25) MARKS**

SPECIAL REQUIREMENTS: NONE

**THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN
GRANTED BY THE INVIGILATORS**

QUESTION 1

Discuss the concept of environmental flows in the context of the use of water by humans in terms of the conservation of biodiversity.

[Total marks = 25]

QUESTION 2

Evaluate the potential use and possible drawbacks of the application of DNA markers in the conservation of germplasm.

[Total marks = 25]

QUESTION 3

Discuss the problems associated with global conservation efforts. What solutions can conservation practitioners use to counter these problems.

[Total marks = 25]

QUESTION 4

Discuss the application of indicators used in biodiversity monitoring exercises.

[Total marks = 25]

END OF EXAMINATION QUESTION PAPER