

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER: MAY 2006

B.Sc. IV

COURSE TITLE : ENVIRONMENTAL MANAGEMENT AND CONSERVATION

COURSE CODE : GEP 423

TIME ALLOWED : THREE (3) HOURS

INSTRUCTIONS :

1. ANSWER THREE QUESTIONS
2. QUESTION 1 IS COMPULSORY
3. ANSWER ANY TWO QUESTIONS FROM SECTION B
4. WHERE APPROPRIATE, ILLUSTRATE YOUR ANSWER WITH EXAMPLES.

MARK ALLOCATION: QUESTION 1 CARRIES FORTY (40) MARKS AND THE OTHER QUESTIONS CARRY THIRTY (30) MARKS EACH

THIS PAPER IS NOT TO BE OPEN UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR

SECTION A: COMPULSORY QUESTION

QUESTION 1

- (a) Discuss the main institutional and legal frameworks used for environmental management in Swaziland. (30 marks).
- (b) Discuss the main causes of eutrophication in water bodies. (10 marks).
- (40 marks)**

SECTION B: ANSWER ANY TWO QUESTIONS

QUESTION 2

Discuss the main causes and effects of ozone depletion. (30 marks)

QUESTION 3

Discuss the main causes and effects of acid rain. (30 marks)

QUESTION 4

Discuss how the following contribute to environmental degradation in Swaziland:

- (a) Energy use (6 marks)
- (b) Urbanization (6 marks)
- (c) Waste disposal (6 marks)
- (d) Agricultural activities (6 marks)
- (e) Motorised transportation system (6 marks)
- (30 marks)**

QUESTION 5

State and describe the indicators that are commonly used in each of the following environmental Issues:

- (a) Land degradation (6 marks)
- (b) Acidification (6 marks)
- (c) Biodiversity (6 marks)
- (d) Ozone depletion (6 marks)
- (e) Water quality (6 marks)
- (30 marks)**