



**UNIVERSITY OF SWAZILAND
SUPPLEMENTARY EXAMINATION PAPER**

PROGRAMME: BSC ABE 4
BSC AGRON 4
BSC AG ED 4

COURSE CODE: ABE 404

TITLE OF PAPER: NATURAL RESOURCES MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

SPECIAL MATERIAL REQUIRED: NONE

INSTRUCTIONS: ANSWER QUESTION ONE AND ANY TWO
OTHER QUESTIONS.

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN
GRANTED BY THE CHIEF INVIGILATOR**

BS

SECTION A. COMPULSORY QUESTION

Question One

- a. Explain the relevance of carrying capacity in natural resources conservation.
/10 marks
 - b. Each consumer level contains only about 10% of the biomass and food energy of the lower level. Discuss four reasons why?
/20 marks
 - c. Explain the meaning of sustainable land management (SLM) and list its four fundamental principles.
/10 marks
- [40 marks]**

SECTION B. ANSWER ANY TWO QUESTIONS

Question Two

- i. Explain the difference between a food chain and a food web?
10 marks
 - ii. Describe the difference between renewable and non-renewable resources citing their characteristics.
10 marks
 - iii. State the law of conservation of matter and how it relates to natural resources management.
10 marks
- [30 marks]**

Question Three

- a. Discuss three of the reasons why a country's governance system is important for natural resources management?
15 marks
 - b. Describe at least three common sources of water pollution.
15 marks
- [30 marks]**

Question Four

a. Environmental law is one of the most important tools for natural resources management. Discuss three of the most common problems curtailing the enforcement of environmental law in Least Developed Countries.

15 marks

b. Discuss the impacts of organic pollutants in surface water resources.

15 marks

[30 marks]