



**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

PROGRAMME: BSC ABE
BSC AGRON
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.

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CHIEF INVIGILATOR**

SECTION A. COMPULSORY QUESTION**Question One**

- a. Discuss the economics of pollution control and use graphs to illustrate the cost of damage to the environment, the cost of pollution control and the cost benefit analysis.

(20 marks)

- b. Discuss why green taxes and tradable permits are important in promoting sustainable economies.

(20 marks)

SECTION B. ANSWER ANY TWO QUESTIONS**Question Two**

- a. Explain what exponential human population growth is and discuss its likely impact on the earth's carrying capacity using a graph to illustrate.

(15 marks)

- b. Explain the meaning of the following terms as used in natural resources management;

i. Ecosystem /5

ii. Food web /5

iii. Biome /5

(15 marks)

Question Three

- a. Explain what environmental law is and discuss its significance in natural resources management

(20 marks)

- b. Discuss the challenges of enforcing environmental law in developing countries.

(10marks)

Question Four

- a. Define the following terms as used in the water pollution control regulations 2010;

- i. Water body /3
- ii. Water Authourity /4
- iii. Operator /3

(10 arks)

- b. Explain why a land tenure system is important for natural resources management?

(10 arks)

- c. Describe the following methods of water resources management;

- i. Watershed protection /5
- ii. Zoning flood plains /5

(10 Marks)