



**UNIVERSITY OF SWAZILAND
SUPPLEMENTRAY EXAMINATION PAPER**

PROGRAMME: 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.

SECTION A. COMPULSORY QUESTION

Question One

- a. The principles of command economies are said to be good for conservation of natural resources compared to market economies, discuss this statement using realistic examples in your country. **20 marks**

- b. Using a diagram to illustrate, explain what exponential human population growth is and how it may affect the sustainable use of natural resources. **20 marks**

SECTION B. ANSWER ANY TWO QUESTIONS

Question Two

- a. Using examples, explain the difference between density dependent and density independent factors that influence population growth. **20 marks**

- b. Discuss the importance of EIAs in environmental management and the challenges of its effectiveness in developing countries. **10 marks**

Question Three

- a. Briefly describe the meaning of the following terms as used in environmental management;
 - i. The law of conservation of matter /10
 - ii. Opportunity costs /10**20 marks**

- b. Discuss the importance of land tenure reform in land administration and management. **10 marks**

Question Four

- a. Explain how sedimentation and sewage cause of water resources pollution.

20 marks

- b. Briefly explain what are the obligations of an operator as stipulated in the water pollution control regulations of 2010.

10 marks