

UNIVERSITY OF SWAZILAND SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME:

BSC LWM 4 AND BSC AG ED 4

COURSE CODE:

LUM 404 S

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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SECTION A. COMPULSORY QUESTION

Question one

- a. The systems theory is based on the premise that "all elements of a system are interrelated and that the whole is greater than the sum of its parts". Using an example, discuss how this theory relates to sustainable development.
 15 marks
- b. Discuss how the following factors are important for human development and natural resources conservation;
 - i. Education
 - ii. Democratic governance

15 marks

c. Describe two practices by which green house gases may be reduced.

10 marks

SECTION B. ANSWER ANY TWO QUESTIONS

Question two

a. Explain how the following components of an environmental impact assessment (EIA) are useful in natural resources management.

i.	Scoping	/5
ii.	Public hearing	/5
iii	Comprehensive Mitigation Plan	/5

15 marks

b. Discuss three land management issues on Swazi Nation Land that may cause a decline in livestock and crop production.

15 marks

Question three

a. Discuss four environmental problems associated with high population density in the world.

(You may use examples from your country)

20 marks

b. Suggest how the problems discussed in part (a) could be resolved.

10 marks

Question four

- a. Discuss any three methods of water resources conservation that could be used at farm or country level to promote responsible use of the resource
 15 marks
- b. Describe any three sources of renewable energy that could be used to save non renewable energy sources.15 marks