

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.

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SECTION A. COMPULSORY QUESTION

Question One

a.	Explain the	relevance of the following	g principles	in conservation of natural
	resources;			

v.	The competitive exclusion principle	/5	30 marks
iv.	The laws of energy	/10	
iii.	The law of conservation of matter	/5	
ii.	Carrying capacity	/5	
i.	Precautionary principle	/5	

b. Explain why understanding of economics is relevant in natural resources conservation?

10 marks

SECTION B. ANSWER ANY TWO QUESTIONS

Question Two

- a. Developed countries often move their manufacturing companies to least developed countries. This is often seen as abuse of least developed countries in various forms. Discuss two reasons why these companies prefer to work in least developed countries.
 10 marks
- b. Describe the following methods of water resources management;
 - i. Watershed protection
 - ii. Zoning flood plains /5

10 marks

c. Describe the causes of eutrophication and the impacts it has in water resources.

/5

10 marks

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i.	Environmental law	/5	
ii.	Land rights	/5	10 marks
Desc	eribe the environments	al impacts of inorganic nutrient	pollutants (nitrates and
		-	10 marks
•	• /		
Exp	lain the meaning of the	e following concepts using example following concepts using example of the following concepts are concepts using example of the following concepts are concepts using example of the following concepts are concepts as a concept of the following concepts are concepts of the following concepts are concepts of the following concepts are concepts as a concept of the following concepts are concepts as a concept of the following concepts are concepts as a concept of the following concepts are concepts of the following concepts are concepts as a concept of the following concepts are concepts as a concept of the following concepts are concepts are concepts and concepts are concepts and concepts are concepts are concepts and concepts are concepts are concepts are concepts are concepts and concepts are conc	mples where possible;
i.	The environment	/5	
ii.	Natural resources	/5	
			10 marks
tion F	our		
Exp	lain why an environr	nental impact assessment (EI	A) is considered a very
imp	ortant tool in natural re	esources management.	
			5 marks
Des	cribe the following co	mponents of an Environment Ir	
Dese	cribe the following con	mponents of an Environment Ir	
	_	-	
i.	Scoping	/6	
i. ii.	Scoping Screening	/6	npact assessment;
i. ii. Wri	Scoping Screening	/6 /9	npact assessment;
i. ii. Writ	Scoping Screening te short notes explaining	/6 /9 ng the following concepts:	npact assessment;
i. ii. Writ	Scoping Screening te short notes explaining	/6 /9 ing the following concepts: /5	npact assessment;
	ii. Description Exp. i. ii. ion F Exp.	ii. Land rights Describe the environmental phosphates) in water resources Explain the meaning of the i. The environment ii. Natural resources ion Four Explain why an environment ii.	ii. Land rights /5 Describe the environmental impacts of inorganic nutrient phosphates) in water resources. Explain the meaning of the following concepts using example it. The environment /5 ii. Natural resources /5