

UNIVERSITY OF SWAZILAND FINAL EXAMINATION PAPER

PROGRAMME:

BSC LWM 4 AND BSC AG ED 4

COURSE CODE:

LUM 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. Give any three land use practices that increases the chances of flooding. (Explain the effect of each on precipitation that leads to flooding).
 15 marks
- b. Describe how you would control and prevent flooding using the methods listed below;

i. Dredging /5

ii. Protection of watersheds /5

iii. Zoning floodplains /5 15 marks

c. Describe the environmental impacts of inorganic nutrient pollutants (nitrates and phosphates) in water resources.

10 marks

SECTION B. ANSWER ANY TWO QUESTIONS

Question Two

a. What is sediment pollution?

3 marks

b. Discuss any three environmental impacts of sediment pollution

12 marks

c. Developed countries often move their manufacturing companies to least developed countries to for certain reasons that suit their production operations. This is often viewed as abuse of least developed countries of various forms. Discuss any two reasons why these companies prefer to work in least developed countries?

10 marks

d. Describe one of the effects of the condition described in part (c) in natural resources conservation in least developed countries.
 5 marks

Question Three

a. Explain the meaning of the following terms as used in resources management;

i. Sustainable developmentii. Social justiceiii. Flood plain	/5	
	/5 /5	
iv. Agenda 21	/5	20 marks

b. Briefly describe how the water Act of 2003 of Swaziland intends to promote responsible water resources use and management by the local communities?

10 marks

Question Four

a. Using the example of Botswana explain why land tenure reform is important for sound natural resources management.

15 marks

 Discuss three land management issues on Swazi Nation Land that may contribute to a decline in agricultural production.

15 marks