UNIVERSITY OF SWAZILAND FINAL EXAMINATION: APRIL / MAY 2005 BASS IV.

TITLE OF PAPER

: LAND USE PLANNING

COURSE NUMBER : GEP 415

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TIME ALLOWED

THREE (3) HOURS

INSTRUCTIONS

1. ANSWER THREE (3) QUESTIONS

QUESTION ONE IS COMPULSORY 2.

ILLUSTRATE YOUR ANSWERS 3. EXAMPLES AND LARGE CLEARLY DRAWN

DIAGRAMS WHERE APPROPRIATE.

SPECIAL REQUIREMENTS:

NONE

ALLOCATION OF MARKS:

QUESTION ONE (COMPULSORY) IS WORTH 40 MARKS WHILE THE REST ARE WORTH 30

MARKS EACH.

THIS PAPER MUST NOT BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR.

SECTION A COMPULSORY

QUESTION 1

- (a) Explain the importance of land evaluation in the land use planning process. (6 marks)
- (b) Identify and describe THREE common land evaluation systems used in the land use planning process. (12 marks)
- (c) Table 1 shows two farms, Farm A and Farm B, with two portions each (portions A1, A2 and B1, B2 respectively). The sizes of each of the farms are 50 hectares.
 - (i) Classify portions A1 and A2 of Farm A and portions B1 and B2 of Farm B according to land capability classes (LCC); land suitability classes (LSC); and land suitability sub classes. (12 marks)
 - (ii) State the appropriate land use for each and every portion. (4 marks)
 - (iii) Use Table 2 to estimate the values of Farm A and Farm B using the following hypothetical prices for land parcels under the different land capability classes.

 (6 marks)

SECTION B ANSWER ANY TWO QUESTIONS

QUESTION 2

Identify and explain the key elements of land tenure systems which provide incentives for production and conservation in the use of land.

(30 marks)

OUESTION 3

(a) Identify and explain the differences in the physical appearance of areas under Swazi Nation Land (SNL) tenure system and those under the Freehold Title Deed (FTD) system.

(15 marks)

(b) Account for the environmental degradation problems on the SNL areas of Swaziland.

(15 marks)

QUESTION 4

- (a) Explain how planners ensure adherence to recommended land uses in the event that they do not own or control the land and other means of production. (14 marks)
- (b) Define the following concepts and explain circumstances under which they are applied.
 - (I) Permitted uses
 - (ii) Proscribed uses
 - (iii) Prescribed uses
 - (iv) Preferred uses

(16 marks)

QUESTION 5

"...our current view (is) that policy plays a central role in land use planning" (Cocks and Austine, 1979:1). Based on this statement, discuss the role of policy in the land use planning process and state the various sources of land use planning policies. (30 marks)

Table 1 Land characteristics of portions of Farm A and Farm B

FARM A		FARM B	
Portion A1		Portion B1	
Size (ha):	29 ha	Size (ha):	40
Slope angle:	1	Slope angle:	8
Soil depth (cm):	120 .	Soil depth (cm):	44
Soil permeability:	(5) good	Soil permeability:	(3) mod. Impermeable
Wetness:	Wo	Wetness:	W1
Erosion:	(1) none	Erosion:	2 moderate
Hindrance to Cultivation:	none	Hindrance to cultivation:	boulders
Portion A2		Portion B2	
Size (ha):	21	Size (ha):	10
Slope angle:	3	Slope angle:	12
Soil depth (cm):	95	Soil depths (cm):	41
Soil permeability:	2 severe	Soil permeability:	rapid permeability
Wetness:	W3	Wetness:	W2
Erosion:	(1) none	Erosion:	3 severe
Hindrance to Cultivation:	none	Hindrance to cultivation:	gravelly

Table 2	Hypothetical Prices of Land Parcels under Different LCC		
	Land Capability Classes	Price (E/Ha)	
	I	100 000	
	II	60 000	
	III	51 000	
	IV	40 000	
	V	30 000	
	VI	20 000	
	VII	10 000	
	VIII	5 000	