



**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

PROGRAMME: BACHELOR OF SCIENCE

COURSE CODE: GEP 434

TITLE OF PAPER: RESOURCE MANAGEMENT

TIME ALLOWED: THREE (3 HOURS)

SPECIAL MATERIAL REQUIRED: NONE

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY TWO
OTHER QUESTIONS**

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GRANTED BY THE CHIEF INVIGILATOR**

SECTION 1: COMPULSORY QUESTION

QUESTION 1

- (a) Discuss the structure of land suitability classification, illustrating how land suitability units are determined. (14 marks)
- (b) Discuss how incentives and property rights can be used to enhance management of land resources. (12 marks)
- (c) Using examples describe the environmental challenges faced by urban areas, highlighting the extent of such problems in Swaziland urban areas. (14 marks).

SECTION II: SELECT TWO QUESTIONS FROM THIS SECTION

QUESTION 2

- (a) Discuss the levels of intensity of land evaluation, highlighting situations under which each of the levels can be used. (15 marks)
- (b) Using examples, compare and contrast land characteristics and land quality. (15 marks)

QUESTION 3

- (a) Describe any four factors that should be considered when undertaking a social impact analysis of land use. (20 marks)
- (b) Compare and contrast multiple land utilisation type and compound land utilisation type. (10 marks)

QUESTION 4

- (a) Discuss any five possible negative impacts of an irrigation project. Specifying how the impacts can be mitigated. (20 marks)
- (b) Using examples, describe how quantitative land evaluation can be used in making a choice on the type of land use that is appropriate for an area. (10 marks)

QUESTION 5

- (a) Using examples to illustrate your answers, discuss the difference between major land improvement and minor land improvement. (15 marks)
- (b) Using examples, discuss how poverty in a society can play a role in land degradation. (15 marks)