



**UNIVERSITY OF SWAZILAND  
FINAL EXAMINATION PAPER**

**PROGRAMME: BSC IN LAND AND WATER MANAGEMENT 4**

**COURSE CODE: LUM 401 (NEW PROGRAMME)**

**TITLE OF PAPER: LAND EVALUATION AND PLANNING**

**TIME ALLOWED: TWO (2) HOURS**

**SPECIAL MATERIAL REQUIRED: NONE**

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

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN  
GRANTED BY THE CHIEF INVIGILATOR**

**SECTION I: COMPULSORY QUESTION****QUESTION 1**

- (a) Compare and contrast the two-stage approach and the parallel approach to land evaluation, highlighting advantages and disadvantages of each of the approaches. (20 marks)
- (b) Environmental Impact Assessment (EIA) is an important component of land evaluation and decision-making. Describe the process of EIA, giving examples of positive and negative impacts of an irrigation project. (20 marks)

**SECTION II: ANSWER TWO QUESTIONS FROM THIS SECTION****QUESTION 2**

Discuss the procedure to be followed in determining the suitability of an area for growing sugarcane, highlighting the information needed to accomplish the exercise, as well as the end results of the process. (30 marks)

**QUESTION 3**

- (a) Using examples, describe how the "goals achievement matrix" can be used to choose the best option in land use planning. (15 marks)
- (b) Compare and contrast multiple land utilisation type and compound land utilisation type. (15 marks)

**QUESTION 4**

- (a) Briefly describe qualitative and quantitative land classifications, highlighting conditions under which each of them is appropriate. (15 marks)
- (b) Discuss how the level of intensity of land evaluation will affect the resolution (details) of data that is used in the evaluation exercise. (15 marks)