



**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

PROGRAMME: BSC IN LAND AND WATER MANAGEMENT 4

COURSE CODE: LUM 401

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**

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GRANTED BY THE CHIEF INVIGILATOR**

89

QUESTION 1 (COMPULSORY QUESTION)

- (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) Discuss how economic and social impact analysis of a development project can be undertaken, specifying the levels of intensity and information needed to undertake such analysis. (20 marks)

QUESTION 2

- (a) Describe three types of basic information about an area that is necessary for establishing goals and terms of references for land use planning, specifying the sources of the information, and how such information can be used (18 marks)

- (b) Discuss the different levels at which land use planning can be undertaken. (12 marks)

QUESTION 3

Using examples illustrate how the goals achievement matrix can be used to choose the best land use between a choice of growing vegetables under intense irrigation, using the area for grazing dairy cows, or growing of rainfed maize. The criteria to use for making choice are: return per ha, return per capita employed and environmental impact of each enterprise. You should make your own realistic assumptions for all the criteria as well as their weightings. (30 marks)

QUESTION 4

- (a) Using hypothetical physical land data, describe the process and procedure to be followed when undertaking a land capability classification. (21 marks)

- (b) Discuss the key players in rural land use planning in Swaziland, and demonstrate how they may be involved in a project for rural development. (9 marks)