

UNIVERSITY OF SWAZILAND

DEPARTMENT OF GEORAPHY, ENVIRONMENTAL SCIENCE AND PLANNING

MAIN EXAMINATION: MAY, 2015

M.Sc

**TITLE OF PAPER : LAND AND WATER RESOURCES PLANNING AND
MANAGEMENT**

COURSE NUMBER : ERM 622

TIME ALLOWED : THREE (3) HOURS

**INSTRUCTIONS : ANSWER 1 QUESTION FROM EACH SECTION
ILLUSTRATE YOUR ANSWERS WITH
APPROPRIATE DIAGRAMS**

MARKS ALLOCATED : ALL QUESTIONS CARRY 50 MARKS.

**THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED
BY THE INVIGILATOR**

SECTION A: ANSWER ONE QUESTION

QUESTION 1:

- a) Give an overview of the physical resources that have traditionally been mined in Swaziland, and evaluate their current status. (20 marks)
 - b) Discuss future prospects of these resources and how these may contribute to economic growth of the country. (15 marks)
 - c) Consider the various problems of pollution in the context of ecological sustainability if these mining operations are maintained, and give appropriate recommendations. (15 marks)
- (50 Marks)**

QUESTION 2:

- a) Discuss and distinguish between renewable and non-renewable energy resources. Give examples for their respective use and application. (25 marks)
 - b) Evaluate the significance and prospects of the various types of renewable energy resources for the economic development of Swaziland. (25 marks)
- (50 Marks)**

SECTION B: ANSWER ONE QUESTION

QUESTION 3

'Planning in the sector of water resources is continuous'. Discuss. (50 Marks)

QUESTION 4

- a) Discuss the importance of economic analysis in water resources planning. (25 marks)
 - b) Distinguish between policy and law in the sector of water resources. (25 marks)
- (50 Marks)**