

UNIVERSITY OF SWAZILAND
DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND
PLANNING

FINAL EXAMINATION, DECEMBER, 2014

MSc

**TITLE OF PAPER : ENVIRONMENTAL MANAGEMENT AND
RESOURCE ECONOMICS**

COURSE NUMBER : ERM 601

TIME ALLOWED : THREE (3) HOURS

**INSTRUCTIONS : ANSWER TWO (2) QUESTIONS
ILLUSTRATE YOUR ANSWERS WITH
APPROPRIATE DIAGRAMS**

MARK ALLOCATION : EACH QUESTION CARRIES FIFTY (50) MARKS

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

ERM 601 : ENVIRONMENTAL MANAGEMENT AND RESOURCE ECONOMICS - DEC, 2014

ANSWER ANY TWO (2) QUESTIONS

QUESTION 1

- a) Critically analyse the dimensions of sustainable development (25 marks)
- b) 'Markets and market failures should be blamed for the prevailing environmental problems.' Discuss the validity of this statement. (25 marks)
- [50 Marks]**

QUESTION 2

- a) Discuss the typical issues facing countries with regard to environmental policy. (20 marks)
- b) With the aid of examples, discuss why it is difficult to determine the best way for the government to regulate the economy and fix the problem of pollution. (30 marks)
- [50 Marks]**

QUESTION 3

Discuss how the following studies can contribute to and assist in resource allocation and management:

- a) Spatial interactions, spatial organisation and regional planning and development. (15 marks)
- b) Perceptions, attitudes and behavior. (15 marks)
- c) Landscape. (10 marks)
- d) Carrying capacity. (10 marks)
- [50 Marks]**

QUESTION 4

- a) Explain why the ecological integrity, social equity, and economic efficiency are regarded as pillars of sustainability through which competing needs could be met when implementing integrated resource planning. (20 marks)
- b) 'In economic comparison of projects using the Benefit-Cost Analysis method, the decision criteria are based on: Net Benefits; the Benefit Ratio, or the Internal Rate of Return'. Discuss these bases indicating their strengths and limitations. (30 marks)
- [50 Marks]**