

UNIVERSITY OF SWAZILAND

DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING

FINAL EXAMINATION PAPER, DECEMBER, 2006.

M. Sc.

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

COURSE NUMBER : ERM 601

TIME ALLOWED : THREE (3) HOURS

**INSTRUCTIONS : ANSWER ANY TWO (2) QUESTIONS
: ILLUSTRATE YOUR ANSWERS WITH APPROPRIATE
EXAMPLES.**

MARKS ALLOCATED : EACH QUESTION CARRIES FIFTY (50) MARKS

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

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QUESTION 1

(a) Discuss the difficulties involved in estimating demand for resources.

(20 marks)

(b) Using examples, explain how multivariate analysis, Delphi and scenario methods can be used to estimate future demand for resources.

(30 marks)

(50 marks)

QUESTION 2

‘Without the economy, most environmental issues would have been research questions of concern to chemists or biologists with no policy significance’. Discuss the relevance of this statement, highlighting environmental issues of interest to economists.

(50 marks)

QUESTION 3

(a) Using examples, discuss the need for environmental policy.

(20 marks)

(b) ‘The job of fixing the problem of pollution is not so easy at policy level, and may involve hard solving problems’. Discuss this statement with reference to developing country situations.

(30 marks)

(50 marks)

QUESTION 4

Discuss why risk is more complicated to manage than “simple” deterministic pollution problems.

(50 marks)