UNIVERSITY OF SWAZILAND

DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND

PLANNING

FINAL EXAMINATION, MAY 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 - MAY, 2014

ANSWER TWO (2) QUESTIONS

OUESTION 1

(a) Compare and contrast the following concepts:

- Economic and ecological dimensions of sustainable development. (10 marks)
- ii. Environmental and economic sustainability.

(10 marks)

iii. Green and sustainable development. (10 marks)

(b) 'The domain of "economics" is fundamental to considerations of sustainable development. However, there has been considerable criticism of the tendency to use the three-domain model of the triple bottom line: economics, environmental and social.' Discuss the challenges likely to be encountered when using this approach.

(20 marks)

[50 Marks]

QUESTION 2

(a) Compare and contrast Strategic Environmental Assessment (SEA) and Environmental Impact Assessment (EIA) indicating their roles in decision making.

(15 marks)

- (b) Outline some of the tools that could be used in Strategic Environmental Assessment (SEA). (10 marks)
- (c) Using examples, discuss the purpose, implications and lessons learned from public participation in Environmental Impact Assessment (EIA).

(25 marks)

[50 Marks]

QUESTION 3

- (a) Using examples discuss the difficulties involved in estimating demand for resources. (20 marks)
- (b) Discuss the differences between economic and financial analysis in determining overall project feasibility. (10 marks)
- (c) 'Many project planners are reluctant to place monetary values upon ecosystem benefits.' Discuss the justification for this and the possible ways out of this problem.

(20 marks)

[50 Marks]

QUESTION 4

(a) Compare and contrast Environmental Auditing (EA) with Environmental Impact (10 marks) Assessment (EIA).

(b) Discuss the objectives and benefits of Environmental Auditing (EA).

(15 marks)

(c) Explain how you would carry out an Environmental Audit (PA).

(25 marks)

[50 Marks]