UNIVERSITY OF SWAZILAND

DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND

PLANNING

FINAL EXAMINATION, DECEMBER, 2016

MSc

TITLE OF PAPER	:	ENVIRONMENTAL MANAGEMENT AND RESOURCE ECONOMICS
COURSE NUMBER	:	GEP 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

GEP 601: ENVIRONMENTAL MANAGEMENT AND RESOURCE ECONOMICS - DECEMBER 2016

ANSWER ANY TWO (2) QUESTIONS

QUESTION 1

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)

QUESTION 2

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

b) Discuss the objectives and benefits of Environmental Auditing (EA).   (10 marks)

c) Explain how you would carry out an Environmental Audit (EA).   (15 marks)

d) Using examples, discuss the purpose, implications and lessons learned from public participation in Environmental Impact Assessment (EIA).   (15 marks)

(50 Marks)

QUESTION 3

a) 'Markets and market failures should be blamed for the prevailing environmental problems.' Discuss this statement.   (15 marks)

b) Discuss the typical issues facing countries with regard to environmental policy.

(15 marks)

c) Using examples, discuss why it is difficult to determine the best way for government to regulate the economy and fix the problem of pollution.

(20 marks)

(50 Marks)

QUESTION 4

a) Discuss the difficulties facing economists and planners in placing monetary values upon ecosystems benefits.

(15 marks)

b) 'It is difficult to determine supply and demand in resource appraisal.' Discuss this statement.

(15 marks)

c) Using examples, discuss why we need to have environmental policies.   (20 marks)

(50 Marks)