



UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

DEGREE IN ENVIRONMENTAL HEALTH

FINAL EXAMINATION PAPER 2007/2008

TITLE OF PAPER	:	ENVIRONMENTAL POLLUTION
COURSE CODE	:	EHS 550
DURATION	:	2 HOURS
MARKS	:	75
INSTRUCTIONS	:	READ THE QUESTIONS & INSTRUCTIONS CAREFULLY
	:	ANSWER ANY THREE QUESTIONS
	:	EACH QUESTION CARRIES 25 MARKS
	:	WRITE NEATLY & CLEARLY
	:	NO PAPER SHOULD BE BROUGHT INTO NOR OUT OF THE EXAMINATION ROOM
	:	BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR.

QUESTION ONE

- (a) Everybody nowadays seems to be concerned about the environment, explain what is meant by the term. Demonstrate your understanding of the environmental concept by discussing how the **Built** environment has impacted on the **Natural** environment
(15 Marks)
- (b) Clarify and critically comment on the statement 'The way people approach the environment is guided by certain philosophical convictions' Give examples.
(10 Marks)

QUESTION TWO

- (a) Explain (in one paragraph and in your own words) what each of the following statements mean giving examples to illustrate the point being made.
1. To understand the environment, we must first realize that it is never static.
 2. Without water life on earth would be non-existent.
 3. Non-point sources of water pollution are more difficult to control
 4. Pollution can result from contamination
- (15 Marks)
- (b) Clarify and critically comment on the statement that if a pollutant is discharged into the environment there are definite effects on individual living organisms?
(5 Marks)
- (c) How would you see excessive quantities of nitrate fertilizers used in farming as contributing to pollution problems?
(5 Marks)

QUESTION THREE

- (a) Indicate to what extent each of the following statements is correct or incorrect and briefly explain why (three to five lines per statement)
1. The **Butimba** ceremony is always wrong because so many wild animals get killed for food.
 2. Virtually every form of human activity is a potential source of pollution.

3. Technology has managed to solve all environmental problems because it has the capacity to alter natural processes as well as solve problems caused by human impact.
4. In rural areas the cause for water pollution is only agricultural in nature.
5. Water pollution is related to land use practices, climate change, energy use, the number of people, and industries producing sewage and other wastes.

(20 Marks)

- (b) In controlling and protecting land pollution two views or approaches guide the actions of municipal authorities. What are these two approaches?

(5 Marks)

QUESTION FOUR

- (a) Chemical pollutants are normally bound to soil particles. Explain the role of rain in non point source pollution. What other two factors influence chemical pollutant transportation?

(10 Marks)

- (b) How may pollution due to runoff from construction sites and urban storm water (pollution) be controlled?

(10 Marks)

- (c) As an Environmental Manager you are assigned to look after a factory dealing with radioactive material. What advice would you give for carrying out radioactive waste management?

(5 Marks)