



UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

DEGREE IN ENVIRONMENTAL HEALTH

FINAL EXAMINATION PAPER 2007/2008

TITLE OF PAPER	:	AIR SAMPLING AND ANALYSIS I
COURSE CODE	:	EHS 564
DURATION	:	2 HOURS
MARKS	:	100
INSTRUCTIONS	:	READ THE QUESTIONS & INSTRUCTIONS CAREFULLY
	:	ANSWER ALL 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 1

- a) Define the following
- i. Dust (3 Marks)
 - ii. Smoke (3 Marks)
 - iii. Fumes (3 Marks)
 - iv. Mists (3 Marks)
 - v. Vapour (3 Marks)
- b) What are the objectives of air pollution monitoring and sampling (10 Marks)

QUESTION 2

- i) Define and illustrate the use of the Tyndall method (10 Marks)
- ii) Define the passive sampling method for gases and vapours (15 Marks)

QUESTION 3

- a) What is a Material Safety Data Sheet and why is it useful to have it? (5 Marks)
- b) Outline 10 items listed in an MSDS (20 Marks)

QUESTION 4

- a) What is a sampling strategy? (2 Marks)
- b) List the 10 factors to consider when preparing of sampling (20 Marks)
- c) Define OEL (2 Marks)
- d) Define AL (1 Mark)