



UNIVERSITY OF SWAZILAND

Faculty of Health Science

Department of Environmental Health
Sciences

Final Examination 2005

Title of paper: Air Sampling and Analysis

Course code: EHS 533

Time allowed: 3 hours

Marks allocation: 100 Marks

Instructions:

- 1) Read the questions and instructions carefully
- 2) Answer Five questions
- 3) Each question is weighted 20 marks
- 4) Write neatly and clearly

This paper is not to be opened until the invigilator has granted
permission

EHS 533
FINAL EXAMINATION
YEAR 2004/2005

Question 1

When sampling gases and vapors the devices used use either absorption or adsorption methods. Explain:

- a) The two (2) methods and [10 Marks]

- b) How the collected material is analyzed [10 Marks]

Question 2

Explain the different types of airborne particulates.

[20 Marks]

Question 3

- a) Before sampling airborne contaminants you have to plan. Explain your plan.

[12 Marks]

- b) Explain with appropriate illustration the 3 fractions of airborne particles.

[8 Marks]

Question 4

- a) What is a Material Safety Data Sheet?

[2 Marks]

- b) List the content of an MSDS

[18 Marks]

Question 5

In relation to respirators

- a) Explain the types of respirators

[12 Marks]

- b) Explain testing methods

[8 Marks]

Question 6

At the factory, employees have identified and assessed hazards in their workstations. Define what they should consider when developing control measures.

[20 Marks]