



UNIVERSITY OF SWAZILAND

Faculty of Health Science

Department of Environmental Health Sciences

Final Examination 2007

TITLE OF PAPER

AIR SAMPLING AND ANALYSIS

COURSE CODE

EHS 533

DURATION

3 HOURS

MARKS

100

INSTRUCTIONS

READ THE QUESTIONS & INSTRUCTIONS

CAREFULLY

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ANSWER ANY FIVE QUESTIONS

:

EACH QUESTION CARRIES 20 MARKS

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NO PAPER SHOULD BE BROUGHT INTO NOR OUT

OF THE EXAMINATION ROOM

:

BEGIN EACH QUESTION ON A SEPARATE SHEET

OF PAPER

DO NOT OPEN THE QUESTION PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR.

144

EHS 533 Final Examination 2006/2007

Answer 5 questions

Question 1

a) What are gases and vapors?

[6 Marks]

b) What is passive sampling?

[2 Marks]

c) Explain the devices that utilize passive sampling for gases and vapors.

[12 Marks]

Question 2

In relation to respirators

a) Explain the types of respirators

[12 Marks]

b) Explain the testing methods

[8 Marks]

Question 3

Explain 5 types of airborne particulates.

[20 Marks]

Question 4

It is important for a worker to know about the chemical he/she is using at the workplace: What document can help him know about the chemical and what is its importance?

[20 Marks]

Question 5

a) Explain the dangerous characteristics of chemicals

[2 Marks]

b) Briefly explain the body's defence mechanism to inhaled substances or particles that are unhealthy.

[6 Marks]

c) Briefly explain the body's defence mechanism to ingested substances or particles that are unhealthy.

[6 Marks]

d) Briefly explain the body's defence mechanism to substances or particles that penetrate the skin that are unhealthy.

[6 Marks]



EHS 533 Final Examination 2006/2007

Question 6

c) Define AL

a) What is the importance of sampling airborne contaminants?

[15 Marks]

b) Define OEL

[3 Marks]

[2 Marks]

