UNIVERSITY OF SWAZILAND

Faculty of Health Sciences

Department of Environmental Health Science

Main Examination December 2014

Title of paper:

Industrial Hygiene Aspect of Plant Operation I

Course code:

EHS 562

Time allowed:

2 hours

Marks allocation:

100 Marks

Instructions:

- 1) Read the questions and instructions carefully
- 2) Answer any 4 questions
- 3) Each question is weighted 25 marks
- 4) Write neatly and clearly

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

Answer any four (4) questions

Question 1

a) Explain the hazards associated with using machines/plants in an industry.

[10 Marks]

b) Outline 5 different types of control measures that can be put in place in order to protect workers from machine hazards.

[10 Marks]

c) What is task analysis and what are the characteristics of a task?

[5 Marks]

Question 2

a) Define the different types of escalators and their hazards

[5 Marks]

b) Outline 5 functions of an industrial hygienist

[10 Marks]

c) Outline the Economics effects of accidents

[10 Marks]

Question 3

 a) Describe the physical hazards associated with the construction industry. Give examples.

[20 Marks]

b) Outline the content of a Safety file in a construction industry

[5 Marks]

Question 4

a) Define farming.

[5 Marks]

b) Outline the general safety and health hazards associated with farming.

[10 Marks]

c) Proper handling of animals is essential in preventing accidents. Describe 5 different ways of ensuring prevention of accidents whilst handling animals (not specific to any animal).

[10 Marks]

Question 5

a) Define pressure vessels and outline possible hazards that can be caused by using pressure vessels

[10 Marks]

b) Write in detail activities carried out in step 1 and 2 of risk assessment (hazard identification and risk assessment) [15 Marks]