



**UNIVERSITY OF SWAZILAND**  
Faculty of Health Science

Department of Environmental Health Sciences  
Final Examination  
May 2010

Title of paper: Institutional Environmental Health and Safety

Course code: EHS 532

Time allowed: 2 hours

Marks allocation: 100 Marks

Instructions:

- 1) Read the questions and instructions carefully
- 2) Answer ALL 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 all questions**

**Question 1**

Discuss (five) 5 categories of hazards at the workplace. Give two (2) examples in each category.

[25 Marks]

**Question 2**

Ergonomics is a science that studies work in relation to the environment in which it is performed and those who perform it.

a) What is the key principle of ergonomics?

[2 Marks]

b) Write notes on an ergonomic sitting workstation.

[10 Marks]

c) Discuss the five (5) factors to consider when designing a manual material handling operation.

[10 Marks]

d) What control measures can be taken to reduce the effects of manual material handling?

[3 Marks]

**Question 3**

Occupational exposure can have an adverse effect on the health of the worker. Using the example of Alcohol and Smoking habits – discuss the relationship between the worker and the workplace.

[25 Marks]

**Question 4**

a) What is the difference between Occupational Safety and Health Standards and Occupational Safety and Health Legislation?

[5 Marks]

b) Outline the duties of the Employer according to the Occupational Safety and Health Act 2001.

[10 Marks]

c) What are the main components covered by the Occupational Health and Safety Assessment Series (OHSAS) 18001.

[10 Marks]