

UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

Department of Environmental Health Science

Final Examination
2011/2012

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 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 4 questions**Question 1**

Define the following terms:

- | | |
|------------------------|-----------|
| a) Muscles | [4 Marks] |
| b) CTD | [4 Marks] |
| c) Ligament | [4 Marks] |
| d) WRULD | [4 Marks] |
| e) Ergonomics | [4 Marks] |
| f) Occupational Health | [5 Marks] |

Question 2

- a) Outline and explain 4 ergonomic principles of hand tool design. [12 marks]
- b)
- i) Give 5 effects (safety and health) of shift work? [5 Marks]
- ii) What are the coping strategies for the worker in relation to shift work? [8 Marks]

Question 3

The Occupational Safety and Health Act 2001 has a clause that requires companies to have a policy and a statement of the policy. In reference to the Act:

- a) State and write in detail five (5) components of an occupational safety and health policy [20 Marks]
- b) Outline the content of an occupational safety and health statement. [5 Marks]

Question 4

Give and explain five (5) factors to consider when developing manual material handling guidelines.

[25 Marks]

Question 5

- a) Occupational exposures can either worsen the health condition of the employee or develop new illness. Explain any five (5) contributing factors to the health of an employee before and during occupational exposures. [10 Marks]

- b) Outline five (5) classifications of occupational hazards that can affect the health and safety of an employee.

[15 Marks]