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15/11/08*



# **UNIVERSITY OF SWAZILAND**

Faculty of Health Science

Department of Environmental Health  
Sciences

**Final Examination 2008/2009**

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 Four 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**

When operating a machine there are hazards associated to it that can affect the health and safety of the worker.

- a) What is a machine? [5 Marks]
- b) Give and explain 5 hazards that can affect the health of the worker [10 Marks]
- c) Give and explain 5 hazards that can affect the safety of the worker [10 Marks]

**Question 2**

Explain the following:

- a) Industrial hygiene [3 Mark]
- b) Functions of an industrial hygienist – give 5 [10 Marks]
- c) Six (6) safety guards that can be in place to safe guard accidents to machine users [12 Marks]

**Question 3**

The handling of animals is associated with a number of hazards.

- a) Explain three categories of hazards associated with handling animals in general [15 Marks]
- b) Discuss hazards associated with handling chickens and how they can be prevented [5 Marks]
- c) Discuss hazards associated with handling cattle and how they can be prevented [5 Marks]

**Question 4**

Explain the following:

- a) Components of a machine

[5 Marks]

- b) Hazards associated with pressure vessels and lifting equipment

[10 Marks]

- c) Hazards associated with construction

[10 Marks]

**Question 5**

Discuss in detail, giving examples the hierarchy of developing control measures.

[25 Marks]