

UNIVERSITY OF SWAZILAND

Faculty of Health Science

Department of Environmental Health Sciences

Supplementary Examination 2011/2012

Title of paper: Industrial Hygiene Aspects 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 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

Agriculture is an industry with hazards that can be fatal and can also lead to disabilities:

- a) What is agriculture? [5 Marks]
- b) Describe hazardous activities are involved in agriculture? [10 Marks]
- c) Describe the hazards of handling animals [10 Marks]

Question 2

Explain the following:

- a) Prime movers and transmission
- b) Industrial hygienist
- c) Escalators and their hazards
- d) Mechanical hazards of a machine
- e) Pressure vessel and lifting equipment [25 Marks]

Question 3

- a) Outline five (5) duties of a hygienist in industry. [10 Marks]
- b) Outline and assess risks of any 5 hazards associated with a manufacturing industry [15 Marks]

Question 4

The construction industry is growing in Swaziland

- a) Outline the hazards associated with the construction industry. [15 Marks]
- b) Every constructor must have a safety file – what should this file contain? [10 Marks]

Question 5

- a) Define risk assessment [5 Marks]
- b) Using 2 examples of hazards, outline and how you would develop their control measures [20 Marks]