



UNIVERSITY OF SWAZILAND
Faculty of Health Science

Department of Environmental Health Sciences

Final Examination
December 2012

Title of paper: Risk Assessment, Management and Communication I

Course code: EHS 567

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**

Risk assessment is a process of evaluating and ranking the risks to health and safety. As a safety officer in a company what method (s) would you use to evaluate and rank risks in order to effectively reduce accident/incident rates in the workplace?

[25 Marks]

Question 2

i) Define the following terms:

- a) External audit
- b) Non-conformity
- c) Occupational health and safety management system
- d) Accident
- e) Workplace

[15 Marks]

ii) What is a task? [1 Mark]

iii) What are the characteristics of a task? [9 Marks]

Question 3

a) What is Task Analysis (TA)? [1 Mark]

b) If TA is properly implemented, it addresses six (6) major components of a system. In detail describe the components and their importance. [24 Marks]

Question 4

In relation to hazard identification methods and process:

a) What is an Inductive approach [1 Mark]

b) What is a Deductive approach [1 Mark]

c) Outline the phases of a system life cycle [8 Marks]

d) Define Fault Tree Analysis (FTA) method [5 Marks]

e) Hierarchy of developing control measures [10 Marks]