



UNIVERSITY OF SWAZILAND
Faculty of Health Science

Department of Environmental Health
Sciences
Final Examination
December 2009

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

Define the following terms:

- a) Risk assessment
- b) Hazard identification
- c) Accident according to the Occupational Safety and Health Act 2001
- d) Occupational Health and Safety management system
- e) Stages of a system's Life cycle

[25 Marks]

Question 2

As a safety officer, the management of the company has asked you to design an occupational health and safety programme that will address the preventive and reactive measures.

Outline what you will include in your programme

[25 Marks]

Question 3

Discuss the following scientific methods of risk assessment:

- a) FTA
- b) HAZOP
- c) Preliminary hazard analysis
- d) FMEA
- e) Job safety analysis

[25 Marks]

Question 4

- a) Define a task and its characteristics.
- b) Define the 4 types of tasks. Give an example for each task.
- c) Outline the 6 categories that are addressed by task analysis

[5 Marks]

[8 Marks]

[12 Marks]