

# **UNIVERSITY OF SWAZILAND**

## Faculty of Health Science

Department of Environmental Health Sciences

### Supplementary Examination 2011/2012

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**

- a) What is risk assessment? [2 Marks]
- b) Define the steps followed in assessing a risk [10 Marks]
- c) What is the purpose of risk management? [5 Marks]
- d) Outline how you would plan to manage an accident [8 Marks]

**Question 2**

- a) Define in detail the hazard identification process [5 Marks]
- b) Define the following hazard identification methods:
  - i. PHA
  - ii. FMEA
  - iii. FTA
  - iv. O & SHA[20 Marks]

**Question 3**

- a) Define a task and its characteristics. [5 Marks]
- b) Define the 4 types of tasks. Give an example for each task. [8 Marks]
- c) Outline the 6 categories that are addressed by task analysis [12 Marks]

**Question 4**

- a) According to the Occupational Safety and Health Act 2001, what is an accident and how is it handled and reported. [10 marks]
- b) Explain the phases of the life cycle of a system. [15 Marks]