

UNIVERSITY OF SWAZILAND
Faculty of Health Science

Department of Environmental Health Sciences

Supplementary Examination 2010/2011

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 task analysis (TA)? [3 Marks]
- b) Outline the phases of a system life cycle. [8 Marks]
- c) Outline how TA is integrated to the system life cycle. Illustrate using a table. [14 Marks]

Question 2

When constructing a fault tree there are special symbols used. Draw and define 5 symbols.
Illustrate the use of all the 5 you defined above using an example

[25 Marks]

Question 3

Explain what you understand by each of the following terms:

- a) Workplace and premises
- b) Risk assessment
- c) Health and safety
- d) Environment
- e) Prevention of pollution

[25 Marks]

Question 4

i) In relation to hazard identification methods:

- a) What is an Inductive approach [3 Marks]
- b) What is a Deductive approach [3 Marks]

ii) In relation to risk assessment outline the

- a) severity of a hazard, [4 Marks]
- b) likelihood of occurrence and [5 Marks]
- c) the matrix for prioritizing intervention [10 Marks]