



**UNIVERSITY OF SWAZILAND**  
**Faculty of Health Sciences**

**DEGREE IN ENVIRONMENTAL HEALTH**

**FINAL EXAMINATION PAPER 2007/2008**

<b>Title of paper</b>	<b>:</b>	<b>RISK ASSESSMENT, MANAGEMENT AND COMMUNICATION I</b>
<b>COURSE CODE</b>	<b>:</b>	<b>EHS 567</b>
<b>DURATION</b>	<b>:</b>	<b>2 HOURS</b>
<b>MARKS</b>	<b>:</b>	<b>100</b>
<b>INSTRUCTIONS</b>	<b>:</b>	<b>READ THE QUESTIONS &amp; INSTRUCTIONS CAREFULLY</b>
	<b>:</b>	<b>ANSWER ANY FOUR QUESTIONS</b>
	<b>:</b>	<b>EACH QUESTION CARRIES 25 MARKS</b>
	<b>:</b>	<b>WRITE NEATLY &amp; CLEARLY</b>
	<b>:</b>	<b>NO PAPER SHOULD BE BROUGHT INTO NOR OUT OF THE EXAMINATION ROOM</b>
	<b>:</b>	<b>BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER</b>

**DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR.**

**Answer any 4 questions**

**Question 1**

Using the Fault Tree Analysis methods define it in details and identify the possible root cause of the fire that burnt down offices in a training institution. Illustrate using a diagram.

[25 Marks]

**Question 2**

a) What is risk assessment?

[2 Marks]

b) Define the steps followed in assessing a risk

[10 Marks]

c) What is purpose of risk management?

[5 Marks]

d) Outline how you would plan to manage an accident

[8 Marks]

**Question 3**

i) Define in details the following hazard identification methods:

a) FMEA

[6 Marks]

b) PHA

[6 Marks]

c) FHA

[6 Marks]

ii) Define in details the hazard identification process

[7 Marks]

**Question 4**

Define the following terms

- a) Occupational health and safety
- b) Hazard - give 2 examples
- c) Environmental aspect
- d) Environment
- e) Audit

[25 Marks]

**Question 5**

- 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]