

UNIVERSITY OF SWAZILAND

Faculty of Health Sciences

Department of Environmental Health Science



**BACHELOR OF SCIENCE IN ENVIRONMENTAL  
MANAGEMENT AND OCCUPATIONAL HEALTH**

**MAY 2019 FINAL EXAMINATION PAPER**

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**TITLE OF PAPER : ACCIDENT/INCIDENT INVESTIGATION & REPORTING**  
**COURSE CODE : EHS 440**  
**DURATION : 2 HOURS**  
**MARKS : 100**

**INSTRUCTIONS**

- 1. Read the questions & instructions carefully**
- 2. Question 1 is compulsory**
- 3. Then answer ANY OTHER THREE (3) questions**
- 4. Each question is weighted 25 marks**
- 5. Write neatly and clearly**
- 6. Numbering within a chosen question should be in a sequential order**
- 7. BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER.**

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

**QUESTION 1**

Give a schematic representation of the chain of accident causation with proper labeling on each parameter (25).

**QUESTION 2**

- a) According to the Occupational Safety & Health Administration, what components are entailed in a successful OSH programme? (12).
- b) Outline the elements that may negate the investigation of minor incidents in the workplace (13).

**QUESTION 3**

- a) Discuss the benefits that may be derived by both the employee and employer with regards to a good job design (9).
- b) Clearly outline the steps that should be followed during an accident reporting exercise (12).
- c) Differentiate between an accident and incident (4).

**QUESTION 4**

- a) List the type of forms that should be submitted once an investigation has been completed (10).
- b) Write short notes on the following (3 marks each = 15).
  - i. Near miss
  - ii. Undesired circumstance
  - iii. Occurrence
  - iv. Accident investigation
  - v. Lost time injury

**QUESTION 5**

- a) Briefly discuss the scientific method as a problem solving technique (10).
- b) How can one calculate incident rates (8)?
- c) Outline the purpose of carrying out accident investigation in the workplace (7).