



UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

DIPLOMA IN ENVIRONMENTAL HEALTH
SUPPLEMENTARY EXAMINATION PAPER 2005

- TITLE OF PAPER** : SOLID WASTE MANAGEMENT
- COURSE CODE** : EHS 205
- DURATION** : 2 HOURS
- MARKS** : 100
- INSTRUCTIONS** :
- : ANSWER ANY FOUR QUESTIONS
 - : EACH QUESTION CARRIES 25 MARKS.
 - : NO PAPER SHOULD BE BROUGHT INTO NOR OUT OF THE EXAMINATION ROOM.
 - : BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER.

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

QUESTION 1.

Why do we bother by proper waste disposal? In your answer highlight issues of vector and vermin, fire hazards, aesthetic etc. (25)

QUESTION 2.

Describe a suitable method of dealing with house waste with regard to storage, collection and disposal.

A) Small cottage. (10)

B) Block of working class dwellings. (15)

QUESTION 3.

Discuss fully the five (5) stages that occur when waste is treated and disposed of by Sanitary landfill process. Mention how temperature of the tip is ascertained and controlled. (25)

QUESTION 4.

A) Discuss composting under the following methods!

1. Windrowing (5)

2. Forced- Aeration (5)

3. In-Vessel (5)

B) How would you judge a good condition of compost? (10)

QUESTION 5.

Discuss Incineration as a system of solid waste disposal under the following topics.

1. Principal features (6)

2. Operational process (8)

3. Advantages (6)

4. Disadvantages (5)

QUESTION 6.

Solid waste recycling is fast growing and encouraged globally in the waste management system!!

How would you introduce, monitor and control a recycling scheme in your area of jurisdiction as an Environmental Health Officer. (25)