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UNIVERSITY OF SWAZILAND

Faculty of Health Science

Department of Environmental Health Sciences

Final Examination 2007

- TITLE OF PAPER : SOLID WASTE MANAGEMENT
- COURSE CODE : EHS 205
- DURATION : 2 HOURS
- MARKS : 100
- INSTRUCTIONS :
- : READ THE QUESTIONS & INSTRUCTIONS CAREFULLY
 - : 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 THE QUESTION PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR.

53

EHS 205 Final Examination 2006/2007

QUESTION 1.

Explain five reasons, why should solid waste be disposed in a sanitary manner? (25).

QUESTION 2.

Describe a suitable method of dealing with domestic waste with regard to storage, collection and disposal emanating from:

- 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)

EHS 205 Final Examination 2006/2007

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)