



**UNIVERSITY OF SWAZILAND**  
Faculty of Health Sciences

**Department of Environmental Health Science**

Main Examination 2014

BSc. in Environmental Health Science

Title of paper: SOLID WASTE MANAGEMENT

Course code: EHM 210

Time allowed: 2 HOURS

Marks allocation: 100 Marks

**Instructions:**

- 1) Answer **ANY FOUR** questions
- 2) Each question is weighted 25 marks
- 3) Write neatly and clearly
- 4) Begin each question on a separate sheet of paper

This paper is not to be opened until the invigilator has granted permission

Main Examination: May, 2014.

EHM 210

### **QUESTION 1**

“Waste composition is the basis of all Waste Management Programmes”.

The composition of solid wastes will undergo significant change in the next 20 years. From an Environmental Health Officer’s perspective explain why this will be the case?  
(25)

### **QUESTION 2**

- i) Describe the various systems of solid waste collection, using relevant examples, where applicable. (15)
- ii) Describe with examples the stages of evolution of Solid Waste Management (Waste hierarchy) (10)

### **QUESTION 3**

“Modern Waste Management is an increasingly complex and important issue”.

Describe the public health problems associated with waste production and the actions that can be taken to address them. (25)

### **QUESTION 4**

Solid Waste Recycling is fast growing and encouraged globally in the Waste Management System.

- i) How would you introduce, monitor and control a recycling scheme in your area of jurisdiction as an Environmental Health Officer. (15)
- ii) What are the benefits of waste minimization and recycling? (10)

### **QUESTION 5**

As a Waste Management consulting Company, you have been given a task of developing a comprehensive solid waste system for a Manzini City Council which is interested in achieving a greater recovery and re-use of its solid waste. Two of the possible alternatives are separation at home or separation at a recovery facility.

What important factors must be considered in evaluating these two alternatives? (25)