



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY
EXAMINATIONS
2018/2019 ACADEMIC YEAR
SECOND YEAR SECOND SEMESTER**

**SCHOOL OF TOURISM & NATURAL
RESOURCE MANAGEMENT
BACHELOR OF SCIENCE IN
ENVIRONMENTAL STUDIES**

**COURSE CODE: EBH 2214
COURSE TITLE: SOLID WASTE
MANAGEMENT**

DATE: 24/4/2019

TIME: 8.30-10.30AM

INSTRUCTIONS

- (i). Attempt all questions in Section A and any THREE in Section B**
- (ii). Marks for each question are indicated in parenthesis**

This paper consists of 2 printed pages. Please turn over.

SECTION A: ANSWER ALL QUESTIONS (25 MARKS)

- 1. Explain three solid waste collection methods (6 marks)**
- 2. Highlight the four combustion requirements in incineration process**

(4 marks)

- 3. Define integrated solid waste management (2 marks)**
- 4. Explain how the various components of landfill are designed to manage leachate (6 marks)**
- 5. Using wet weight method, calculate the moisture content of a solid waste sample weighing 10Kg when wet and 8Kg when dried in an oven at 105⁰ C for 1 hour. (3 marks)**
- 6. Differentiate between pyrolysis and incineration (4 marks)**

SECTION B: ANSWER ANY THREE QUESTIONS (45 MARKS)

- 1. Source reduction targets waste at its source. Discuss the strategies that can be employed to achieve source reduction (15 marks)**

2. a) What is waste generation per capita?
(1 mark)

b) Discuss seven factors that affect waste generation rates

(14 marks)

3. Discuss 5 challenges faced by developing countries in solid waste management
(15 marks)

4. Discuss the environmental impacts of mismanagement of solid wastes

(15 marks)

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