



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 **(6marks)**
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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