



MAASAI MARA UNIVERSITY

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

**SCHOOL OF TOURISM & NATURAL RESOURCE
MANAGEMENT
BACHELOR OF ARTS IN GEOGRAPHY**

COURSE CODE: BGS 402

COURSE TITLE: WASTE MANAGEMENT

DATE: 16/4/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS

- (i). Attempt all questions in Section A and any TWO 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 (30 MARKS)

1. Describe five circumstances that make it necessary to have waste transfer stations (5marks)
2. Draw a structure and name the various components of a landfill (9marks)
3. List 5 reasons for treating waste water (5marks)
4. Explain 3 ways by which flue gas can be cleaned (6 marks)
5. Explain three combustion requirements for effective incineration (5 marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

1. Municipal solid waste is generated within a community from several sources, not just the household. List and discuss these sources (20 marks)
2. Discuss any five characteristics of solid wastes indicating the relevance of each in solid waste management (20 marks)
3. Discuss how the following affect Anaerobic Digestion process (20 marks)
 - a) Temperature (5 marks)
 - b) PH (5 marks)
 - c) Nutrients and trace metals (5 marks)
 - d) Toxicants (5 marks)

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