



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR
SECOND YEAR FIRST SEMESTER**

**SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT
BACHELOR OF SCIENCE (URBAN AND
REGIONAL PLANNING)**

**COURSE CODE: URP 2112-1
COURSE TITLE: WASTE MANAGEMENT**

DATE : 13/12/2023

TIME: 1100-1300 HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in section A and any other **THREE** in section B.

This paper consists of 2 printed pages. Please turn over

Section A: Answer ALL questions (20 marks)

QUESTION ONE

- a) Explain the concept of 'Integrated Municipal Waste Management'(2 marks)
- b) Explain the relevance of waste management knowledge in urban planning (2 marks)
- c) State three (3) waste collection methods used in Kenya (3 marks)
- d) Highlight three (3) reasons for waste segregation (3 marks)
- e) Outline four (4) circumstances that would necessitate the setting up of a waste transfer station (4 marks)
- f) Describe three (3) strategies for achieving waste minimization (6 marks)

Section B: Answer any THREE questions (30 marks)

QUESTION TWO

- a) Describe two (2) biological treatment methods used in conventional wastewater treatment (4 marks)
- b) Explain three challenges facing waste management in developing countries (6 marks)

QUESTION THREE

Describe five (5) precautionary safety measures for preventing environmental degradation from sanitary landfills (10 marks)

QUESTION FOUR

Narok County Government is planning to come up with a wastewater management strategy for Narok town. The appropriate location of wastewater treatment plant is among the things to consider. Advise the County government of Narok on what to consider in choosing the most appropriate site for the wastewater treatment plant (10 marks)

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