



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
PUBLIC HEALTH/COMMUNITY HEALTH AND DEVELOPMENT
2ND YEAR 1ST SEMESTER 2024/2025 ACADEMIC YEAR
MAIN/KISUMU CAMPUS

COURSE CODE: HCB 2102
COURSE TITLE: WASTE MANAGEMENT
EXAM VENUE: STREAM: BSc Public/ Comm. Hlth & Dev
DATE:9/1/25 **EXAM SESSION:**9-11.00 AM
TIME: 2.00 HOURS

Instructions:

- 1. Answer all the questions in Section A and 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

Section A (Answer all questions) (30 marks)

1. Define "solid waste management" and explain its significance in urban environments. (3 marks)
2. What are the environmental impacts of improper solid waste disposal? (3 marks)
3. Differentiate between waste recycling and waste recovery (4 marks)
4. Highlight waste minimization techniques (4 marks)
5. Highlight advantages of landfills as a way of waste treatment. (4 marks)
6. Describe incineration as a technique used to reduce and eliminate biomedical waste. (6 marks)
7. Describe emerging trends in waste treatment (6 marks)

Section B (Answer any 2 questions)

1. Discuss the challenges and opportunities of implementing a nationwide recycling program. Consider factors such as public participation, economic feasibility, and infrastructure requirements. (20 marks)
2. **Evaluate the effectiveness of the waste-to-energy (WTE) approach as a solution to waste management problems.**
In your response, analyse both the potential benefits and the environmental concerns associated with WTE technologies. (20 marks)
3. **Assess the role of consumer behavior in waste management and sustainability.**
How can education, awareness campaigns, and giving of incentives influence waste reduction and recycling practices? (20 marks)
4. **a. Discuss waste transportation methods that commonly used from waste generation point to the final disposal or treatment point.** (10 marks)
b. Discuss types of waste based on the sources of waste. (10 marks)