



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
3RD YEAR 1ST SEMESTER 2024/2025 ACADEMIC YEAR
MAIN CAMPUS

COURSE CODE: HCB 1307
COURSE TITLE: HAZARDOUS WASTE MANAGEMENT
EXAM VENUE: STREAM: BSc Public/ Comm. Hlth & Dev
DATE: 7/1/25 **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 (30 marks)

1. Define hazardous waste and explain why it is considered dangerous to human health and the environment. (5 marks)
2. List and describe the main types of hazardous waste, providing one example for each type.(5 marks)
3. What is the difference between acute and chronic hazards in the context of hazardous waste? (5 marks)
4. Explain the concept of the "cradle-to-grave" management approach in hazardous waste management. (5 marks)
5. What are the key steps involved in the hazardous waste management process, from identification to disposal? (5 marks)
6. Describe the role of Material Safety Data Sheets (MSDS) in managing hazardous waste. (5 marks)

Section B

1. Discuss the various methods of treating hazardous waste, focusing on their advantages and limitations. (20 marks)
2. Evaluate the role of hazardous waste management in minimizing environmental impact and protecting human health. (20 marks)
3. Analyze the role of legislation and regulations in hazardous waste management. (20 marks)
4. Discuss the challenges associated with hazardous waste transportation and disposal.