



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE**  
**COMMUNITY HEALTH AND DEVELOPMENT**  
**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER 2018/2019 ACADEMIC YEAR**  
**KISII CAMPUS.**

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**COURSE CODE:** HCD: 3122  
**COURSE TITLE:** WASTE MANAGEMENT.  
**EXAM VENUE:** STREAM: BSc Community Health and Development  
**DATE:** **EXAM SESSION:**  
**TIME: 2.00 HOURS**

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**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. (30MARKS)

1. Define the following terminologies as used as used in waste management. (4marks)
  - a) Hazard.
  - b) Hazardous wastes.
  - c) Waste
  - d) Waste management
2. Collection and poor disposal of solid waste are major result of environmental problems in Sub-Sahara Africa and can result into various health hazard. State and explain various environmental health hazards associated with poor disposal of waste (6marks).
3. Outline five significant of proper solid waste disposal. (5marks).
4. Briefly describe five methods of human excreta disposal. (5marks).
5. In regard to permit and orders for exhumation, a record should be kept for every permit granted and for every order made with regards to exhumation the re-internment of the dead. Outline particulars Label contained in permit and order for exhumation. (5marks).
6. Outline five characteristic of hazardous waste (5marks).

SECTION B. (40MARKS)

6. a. Discuss the various sources of water pollution. (20marks).
7.
  - a. Explain the function of the screen in a sewerage system (8marks)
  - b. Describe the biological properties of sewage (12marks)
8. Describe the following methods of waste disposal and minimization options (20marks)
  - a. Sanitary land fill.
  - b. Incineration.
  - c. Composting.
  - d. Recycling.