

**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND  
TECHNOLOGY  
SCHOOL OF HEALTH SCIENCES**

**MAIN CAMPUS**

**FIRST YEAR FIRST SEMESTER EXAMS  
HCD 2113: WASTE MANAGEMENT**

**SECTION A: Answer ALL questions in this section (3 Marks each).**

1. Define the terms waste and waste management.
2. What are e-wastes? Give examples.
3. Define the following terms,
  - a. Dissolved CO<sub>2</sub>
  - b. Chemical oxygen demand
  - c. Integrated solid waste management
4. List three advantages and disadvantages of recycling as a method of waste disposal.
5. List the methods of industrial wastewater treatment.
6. Giving examples, define point and nonpoint sources of river pollution.
7. Give a brief description of three methods of liquid waste disposal.
8. List the methods that can be used to dispose biomedical wastes.
9. List the factors to be considered when siting land for disposal of wastes.
10. List three excreta disposal methods without water carriage.

**SECTION B**

**Answer any TWO questions from this section (15 marks each)**

1. Discuss the regulatory requirement in waste management in Kenya.
2. Discuss the functional elements of solid waste management program.
3. Discuss stages involved in sewage treatment processes.
4. Discuss the various methods of solid waste disposal.