

**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND  
TECHNOLOGY  
SCHOOL OF HEALTH SCIENCES  
FIRST YEAR SECOND SEMESTER EXAMS  
HCD 3122: WASTE MANAGEMENT**

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

1. List three types of waste.
2. Outline three ways in which solid wastes can be disposed.
3. Give three advantages of using landfills as methods of solid waste disposal.
4. Differentiate between primary and secondary waste water treatment methods
5. Outline three methods by which solid wastes are generated.
6. List three environmental requirements considered when constructing landfills
7. Outline three advantages of recycling of solid wastes.
8. During a class visit to Kisii Municipal council waste disposal department, you discovered that they are using open dump sites in disposing the town waste. Give three dangers that may result from this method of waste disposal.
9. List three methods of disposing dead animal corpses in rural homes.
10. Give three methods of industrial liquid waste disposal.

**SECTION B**

**Answer any TWO questions from this section (20 marks each)**

1. Discuss five public health impacts associated with poor solid waste disposal in various municipalities in Kenya.
2.
  - a. Define the term effluent as used in waste water treatment.
  - b. Describe three methods of primary and secondary waste water treatment.
3. Describe five methods of reducing river pollution.
4. Using separate headings, describe the sewerage treatment process.