

JOOUST

UNIVERSITY EXAMINATION

JAN-APRIL 2014

HDC 2113 WASTE MANAGEMENT

DIPLOMA IN COMMUNITY HEALTH AND DEVELOPMENT

INSTRUCTIONS: Answer all questions in section A and any two in section B.

SECTION A (40 MARKS)

1. Differentiate between the following terms as used in solid waste management.
 - i. Domestic waste 3 marks
 - ii. Industrial waste 3 marks
2. Packaging is largely responsible for causing environmental pollution. Explain 4marks
3. Accountant for the rapid growth in the quantity of solid waste within the Kisii municipality. 6marks
4. Explain “Polluter Pay Principle” with respect to waste management. 4marks
5. Highlight the reasons for waste water treatment before it is released into the natural water bodies 6marks
6. Name and describe the three types of bacteria that are present in a sewage treatment system 6marks
7. Describe the functions of each of the following parts of the liquid waste treatment system
 - i. Screens 2marks
 - ii. Grit Chambers 2marks
 - iii. Skimming tank 2marks
 - iv. Aeration tank 2marks

SECTION B (30MARKS)

8. Discuss the four conventional stages in the treatment of waste water 15marks
9. Write short notes on the following methods used in solid waste management.
 - i. Incineration 5marks
 - ii. Sanitary landfill 5marks
 - iii. Recycling 5marks
10. Discuss the health hazards of improper handling and disposal of waste within the municipal council. 15marks.