

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION 2013
1st YEAR 1ST SEMESTER EXAMINATION FOR DIPLOMA IN
COMMUNITY HEALTH AND DEVELOPMENT
(KISII LEARNING CENTRE)

COURSE CODE: HCD 2113

COURSE TITLE: WASTE MANAGEMENT

DATE:

TIME:

INSTRUCTIONS

1. This examination paper contains COMPULSORY and ELECTIVE questions
2. Answer ALL COMPULSORY questions and ANY TWO ELECTIVE set of questions
3. Write all answers in the examination booklet provided

COMPULSORY QUESTIONS

Answer ALL questions in this section [TOTAL MARKS=30]

1. Define hazardous wastes (*2 marks*)
2. State **TWO** parametric measures used to determine the strength of sewerage (*2 marks*)
3. Differentiate between solid waste and liquid waste and give **ONE** example of each in your community (*4 marks*)
4. List at least **TWO** advantages and **TWO** disadvantages of the following methods of waste disposal:
Controlled tipping (*2 marks*) Separation and incineration (*2 marks*)
5. State at least **THREE** advantages and **THREE** disadvantages of using the following waste receptacle methods:
Standard metal bins (*3 marks*) Plastic standard bins (*3 marks*)
6. Identify **THREE** factors that influence selection of a type of latrine in a community (*3 marks*)
7. Differentiate between a sanitary landfill and crude dumping (*3 marks*)
8. State **THREE** forms of treatment which solid wastes can be subjected to before disposal (*3 marks*)
9. What is the importance of keeping records of refuse collection (*3 marks*)

ELECTIVE QUESTIONS

Answer ANY TWO questions in this section [TOTAL MARKS =40]

Question 10

- 10.1. Outline **FIVE** objectives of treating sewerage before final disposal (**5 marks**)
- 10.2. Highlight **FIVE** considerations that will guide your plan for a waste collection system (**5 marks**)
- 10.3. Why is hazardous waste becoming a major public and community health concern in Kenya? (**10 marks**)

Question 11

- 11.1. Describe briefly **FIVE** factors which affect the amount and characteristics of solid wastes in a community you live (**10 marks**)
- 11.2. Give **FIVE** reasons for analyzing solid wastes in a fast growing town (**10 marks**)

Question 12

- 12.1. Outline **THREE** factors which affect the collection of solid wastes (**6 marks**)
- 12.2. State **FOUR** advantages of pour-flush latrines (**4 marks**)
- 12.3. Identify **FIVE** sources of solid wastes in urban areas (**5 marks**)
- 12.4. What are the classes of solid wastes in rural and urban areas? (**5 marks**)