



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
DIPLOMA IN COMMUNITY HEALTH PRACTICE
END OF MAY-AUGUST 2024 SEMESTER EXAMINATIONS**

UNIT CODE: DCHP 125

UNIT NAME: SOLID WASTE MANAGEMENT

DATE: THURSDAY 8TH AUGUST 2024

TIME: TWO HOURS

START: 2.00 PM **STOP:** 4.00 PM

INSTRUCTIONS

1. This exam is marked out of 60 marks
2. This Examination comprises TWO Sections
Section A: Compulsory Question (20 Marks)
Section B: Long Answer Questions (40 Marks)
3. This online exam shall take TWO Hours
4. All questions in Section A are compulsory and Answer any TWO questions in Section B

SECTION A: COMPULSORY (20 MARKS)

1. Identify three reasons for the increase in Municipal Solid waste in Nairobi (3 marks)
2. Outline the 3 R principle in waste minimization (3 marks)
3. State three principles of Solid Waste Management (3 marks)
4. Outline two importance of refuse analysis (2 marks)
5. State two importance of the Environmental Management Coordination Act (EMCA) of 1999 in waste management (2 marks)
6. Highlight three principle of Waste to Energy (WtE) and give an example (3 marks)
7. State two importance of color coding in waste segregation (2 marks)
8. Highlight two types of collection vehicles used in waste management (2 marks)

SECTION B: ANSWER ANY TWO (2) QUESTIONS (40 MARKS)

9. Solid waste management is essential in health promotion. Discuss
 - a) Five objectives of Solid Waste Management (10 marks)
 - b) Five major shortcomings identified in waste management legislation (10 marks)
10. Discuss the Impacts of the Dandora Open Dumpsite in Nairobi County (20 marks)

Discuss the following solid waste disposal methods

 - a) Incineration (5 marks)
 - b) Sanitary landfills (5 marks)
 - c) Bioremediation (5 marks)
 - d) Dumpsites (5 marks)
11. Discuss five adverse health impacts due to improper handling of solid waste. (20 marks)