



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
DIPLOMA IN COMMUNITY HEALTH
END OF SEMESTER EXAMINATION AUGUST 2026

UNIT CODE: DCHP 125 SOLID WASTE MANAGEMENT

DATE: 6th August, 2026

TIME: Two Hours Start: 11:30AM Finish: 1:30PM

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)

SECTION A: COMPULSORY (20 Marks)

Short Answer Questions

1. A newly employed Community Health Assistant is assigned to orient community volunteers on the basics of solid waste management before they begin a clean-up campaign.

Define the following terms:

- a) Solid waste (2 marks)
- b) Solid waste management (2 marks)

2. During a public health meeting, residents ask why modern solid waste management practices are emphasized despite communities managing waste traditionally for many years. State FOUR objectives of solid waste management that support environmental and public health. (4 mark)

3. A health officer is preparing a report on the types and quantities of waste generated in an urban market.

- a) Identify TWO classes of solid waste. (2 marks)
- b) State TWO reasons why refuse analysis and refuse yield are important in planning waste management programmes. (2 marks)

4. A primary school has introduced waste segregation to improve environmental sanitation.

Explain the 3R principles of waste minimization by describing:

- a) Reduce (1 mark)
- b) Reuse (1 mark)
- c) Recycle (1 mark)

d) One benefit of applying the 3Rs

(1 mark)

5. A Community Health Officer observes that waste is piling up despite regular collection schedules. State FOUR factors that determine the frequency of solid waste collection in a community.

(4 marks)

SECTION B

ANSWER ANY TWO (2) QUESTIONS (40 Marks)

6. A rapidly growing municipality has experienced increased waste generation due to population growth and expanding commercial activities. The county government intends to develop an effective solid waste management programme.

i. Explain FIVE classifications of solid waste and give one example for each classification.

(10 Marks)

ii. Discuss FIVE objectives of solid waste management and explain how each objective contributes to improved community health.

(10 Marks)

7. A county referral hospital has reported frequent cases of improper waste segregation and poor storage of healthcare waste, increasing the risk of infection among staff and patients.

i. Explain the colour coding system used in waste segregation, indicating the type of waste placed in each colour-coded container.

(10 Marks)

ii. Discuss FIVE waste storage facilities or receptacles used in solid waste management, highlighting one advantage of each:

(10 Marks)

8. A peri-urban settlement has experienced irregular waste collection, overflowing refuse containers, and increased complaints of foul odours and vector infestation. The County Public Health Department plans to improve waste collection and transportation services.

i. Discuss FIVE methods of solid waste collection, indicating one advantage of each method.

(10 Marks)

ii. Explain FIVE requirements for safe transportation of solid waste and describe how each requirement contributes to environmental protection and disease prevention.

(10 Marks)

