

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

ENSC 450: SOLID WASTE MANAGEMENT

STREAMS: BSC ENSC Y4S1

TIME: 2 HOURS

DAY/DATE: MONDAY 16/12/2024

8.30 A.M – 10.30 A.M.

INSTRUCTIONS:

- Answer all questions in section A and any two in Section B.
- Do not write on the question paper.

SECTION A (30 MARKS)

1. Write short notes on closed loop and open loop recycling. (6 marks)
2. With a clearly labelled figure, outline the waste management hierarchy. (6 marks)
3. A study is done to describe solid waste from two communities, a poor one and a rich one. Explain your expectations of the differences between the two. (6 marks)
4. Discuss the practice of communal collection. (6 marks)
5. In practice attaining 'zero waste' is almost impossible. Explain any three reasons to support this statement. (6 marks)

SECTION B (40 MARKS)

6. Explain the different ways waste prevention can be implemented to minimize the solid waste management challenge. (20 marks)
7. Discuss the differences of the solid waste concerns and its management in rural and urban settings. (20 marks)
8. Critique the Sustainable Waste Management Act of 2022 on the extent to which it provides for attaining sustainability in waste management. (20 marks)