



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN ENVIRONMENTAL HEALTH

HEH 206: SOLID WASTE MANAGEMENT

DATE: Wednesday, 22nd November 2017

TIME: 2.00 p.m. - 4.00 p.m.

INSTRUCTIONS:

Answer ALL Questions in section A. In section B answer question ONE and any other TWO questions. Section A carries 20 marks while Section B carries 50 marks. Question One of section B carries 20 marks while the rest in that section carries 15 marks each.

SECTION A: Answer all the questions in this section

1. (a) Define the following terms. (4 marks)
 - (i) Waste
 - (ii) Municipal waste
 - (iii) Waste management
 - (iv) Disposal
- (b) Identify and list the sources of solid wastes. (4 marks)
- (c) Elucidate the seven steps of solid waste management. (7 marks)
- (d) Examine and explain the waste management hierarchy. (5 marks)

SECTION B: Answer Question 5 and any other TWO questions in this section

Question 5 carries 20 marks while the other questions carry 15 marks each

2. Briefly examine the following in the context of solid waste management.
 - (i) Status of waste management in Kenya. (5 marks)
 - (ii) Public health significance of solid wastes. (5 marks)
 - (iii) Global trends in waste management and emerging issues. (5 marks)
 - (iv) Legal framework for the management of solid wastes in Kenya. (5 marks)

INVOLVEMENT IN ANY EXAMINATION IRREGULARITY SHALL LEAD TO DISCONTINUATION

3. (a) Discuss in detail the applicability of the key components of solid waste management in Kenya. (10 marks)
- (b) Explain the factors affecting effective and efficient collection of solid waste in a named setting of your choice. (5 marks)
4. Describe the main methods for the treatment and disposal of solid waste alluding to the advantages and disadvantages in each case. (15 marks)
5. (a) Discuss composting as a method of solid waste management while examining factors affecting composting. (6 marks)
- (b) Describe the different techniques used in thermal treatment of solid wastes. (9 marks)