



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2009/2010

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (ENVIRONMENTAL HEALTH)

HEH 302: HAZARDOUS WASTE MANAGEMENT

DATE: TUESDAY, 22ND DECEMBER 2009

TIME: 11.00 A.M. - 1.00 P.M.

SECTION A: ANSWER ALL THE QUESTIONS IN THIS SECTION.

1. Define the following concepts as used in hazardous waste management:
 - i) Hazardous wastes (2 marks)
 - ii) Hazardous waste determination (2 marks)
 - iii) Waste stream (2 marks)
2. Explain the three categories of listed hazardous waste. (3 marks)
3. List the characteristic of hazardous waste. (2 marks)
4. Explain the use of process knowledge and analytical testing in hazardous waste determination. (4 marks)
5. State the rule of thumb in hazardous waste documentation. (2 marks)
6. List the different types of hazardous wastes. (3 marks)

SECTION B: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS.

**QUESTION ONE CARRIES TWENTY (20) MARKS WHILE THE
OTHER QUESTIONS CARRY FIFTEEN (15) MARKS EACH.**

1. Giving specific examples discuss the different types of hazardous waste combustion units citing advantages and disadvantages in each case. (20 marks)
2. Discuss deep well injection as a means of safe management of hazardous wastes clearly identifying its applicability and limitations. (15 marks)
3.
 - a) Describe the different sources of hazardous wastes. (8 marks)
 - b) Critically examine the effects of hazardous wastes. (7 marks)
4.
 - a) Explain the principles of hazardous waste management. (8 marks)
 - b) Discuss the elements of an effective hazardous waste control and management strategy. (7 marks)
5. Discuss the requirements for hazardous waste treatment, storage and disposal facilities (TSDFs). (15 marks)
6. Hazardous wastes are controlled and managed by three key international conventions. Discuss. (15 marks)
