



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

DIPLOMA IN ENVIRONMENTAL HEALTH
(DEH 11M)

AES 2303 : WASTE MANAGEMENT

SUPPLEMENTARY/SPECIAL : EXAMINATIONS

SERIES: MARCH 2014

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this paper

- *Answer booklet*

This paper consists of **FIVE** questions.

Answer Question **ONE (compulsory)** and any other **TWO** questions

This paper consists of 2 PRINTED pages

QUESTION ONE

- a) State any goals of solid waste management (4 marks)
- b) Define waste composition and state the content of sewage (5 marks)
- c) Briefly describe the characteristics of a modern sanitary landfill (5 marks)
- d) Identify the classes of medical wastes (3 marks)
- e) Outline the criteria for water quality analysis (5 marks)
- f) Give any four effects of poor waste management (4 marks)
- g) Identify the classes of radioactive wastes (4 marks)

QUESTION TWO

- a) Briefly explain the following principles of waste management
 - (i) Waste hierarchy (2 marks)
 - (ii) Pollution pay principle (2 marks)
 - (iii) Proximity principle (2 marks)
- b) Define hazardous waste and outline any four methods of treating hazardous waste (9 marks)

QUESTION THREE

- a) Outline any three parameters used in the analysis of sewage based on each of the following
 - (i) Chemical characteristics
 - (ii) Physical characteristics(6 marks)
- b) Discuss the challenges of solid waste management in Mombasa city (9 marks)

QUESTION FOUR

Describe the treatment of sewage in a centralized treatment system (15 marks)

QUESTION FIVE

Describe the laws that are relevant to waste management in Kenya (15 marks)