



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF **ENVIRONMENT AND HEALTH SCIENCE**

DIPLOMA IN ENVIRONMENTAL HEALTH (DEH 11M)

DIPLOMA IN COMMUNITY HEALTH & HIV MANAGEMENT (DCH 12J)

AES 2303 : WASTE MANAGEMENT

SEMESTER: END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER, 2013

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

You should have the following for this paper

- *Answer booklet*

This paper consists of **FOUR** questions.

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

This paper consists of TWO PRINTED pages

(Compulsory – Answer ALL Questions)

Question ONE

- (a) State any **THREE** goals of solid waste management. **(3 marks)**
- (b) Describe the 3 R's principle of waste management. **(5 marks)**
- (c) Describe the polluter pay principle in waste management. **(3 marks)**
- (d) Briefly describe the drivers of e-waste production. **(4 marks)**
- (e) Classify any **FOUR** categories of wastes in Kenya. **(4 marks)**
- (f) What factors influence the composition of waste from the following sources:
 - (i) Household **(3 marks)**
 - (ii) Industry **(3 marks)**
- (g) Give any **FIVE** ways of waste minimization. **(5 marks)**

(Answer Any Other TWO Questions)

Question TWO

- (a) Describe the effects of poor waste management. **(10 marks)**
- (b) Define waste composition and state the content of sewage. **(5 marks)**

Question THREE

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

Question FOUR

Discuss the sources, treatment and disposal of radioactive wastes. **(15 marks)**

Question FIVE

Discuss the challenges in the management of wastes in urban centers of Kenya. **(15 marks)**