



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF **ENVIRONMENT AND HEALTH SCIENCE**

DIPLOMA IN COMMUNITY HEALTH AND HIV MANAGEMENT
(DCHM 10S)

AES 2303 : WASTE MANAGEMENT

SPECIAL/SUPPLEMENTARY: EXAMINATIONS

SERIES: FEBRUARY 2013

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) Define the following terms
 - (i) Solid waste (2marks)
 - (ii) Sewage (2marks)
 - (iii) Domestic waste (2marks)
- b) Explain why the information on sources, composition and volume of solid waste generated important for waste management? (5marks)
- c) Explain why the characterization of solid waste is important for waste management ? (4marks)
- d) Describe the sources and impacts of the following from a refuse dump
 - (i) Diseases (4marks)
 - (ii) Fires (4marks)
 - (iii) Odour (3marks)
- e) Explain what bulky waste are (4marks)

Question TWO

- a) What is open-dumping as used in solid waste disposal? State its disadvantages and advantages (5marks)
- b) Sanitary land-filling is a preferred process in control waste disposal.
 - (i) Describe this process (5marks)
 - (ii) State why silage advantages and disadvantages (5marks)

Question THREE

- a) Describe the composition of sewage diagrammatically (10marks)
- b) State the principle in the biological treatment of sewage (3marks)
- c) State silage can be harmful in the treatment of domestic sewage (2marks)

Question FOUR

- a) Define hazardous substances -(2marks)
- b) Explain the FOUR characteristics of hazardous chemicals. (8marks)
- c) Discuss the health risks associated with hazardous waste dumpsites (5marks)

Question FIVE

- a) Outline the different categories of medical wastes with a brief explanation for each (13 ½ marks)
- b) Name the people at risk of medical wastes? (1 ½ marks)