

TECHNICAL UNIVERSITY OF MOMBASA
FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN COMMUNITY HEALTH
BSCH 13S/YEAR3/ SEMESTER 11
APH 4311: COMMUNITY WASTE MANAGEMENT
SEMESTER EXAMINATION
SERIES: APRIL/MAY 2016
TIME: 2 HOURS

Instructions to Candidates

This paper consists of **FIVE** questions

Answer question **ONE (COMPULSORY)** and any other **TWO** questions.

This paper consists of two printed pages.

Question One (Compulsory)

- a) Using relevant examples, elaborate the following concepts;
- i. Hazardous waste (2 marks)
 - ii. Domestic waste (2 marks)
 - iii. Biological oxygen demand (2 marks)
- b) Write short notes on the following processes
- i. Waste management (5 marks)
 - ii. Waste treatment (5 marks)
 - iii. Composting (5 marks)
- c) Briefly elaborate the main methods of solid and liquid waste management (4 marks)
- d) State the reasons why waste management is important (5 marks)

Question Two

- a) Using illustrations, discuss the concepts of “reduce, reuse and recycle in waste management **(10 marks)**
- b) Discuss the process of biological solid waste treatment **(10 marks)**

Question Three

- a) Waste management has both environmental and health benefits. Discuss. **(12 marks)**
- b) Discuss the key processes involved in sewage treatment **(8 marks)**

Question Four

- a) Explain the policy and laws on waste management in Kenya. **(20 marks)**

Question Five

- a) You have been posted as an environmental officer in Nakuru County where waste management is a major concern. Discuss some of the challenges you are likely to face in discharging your duties. **(20 marks)**