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 1

a) Using illustrations, define the following concepts;

i. Hospital waste
ii. Waste disposal
iii. Incineration
(2 marks)
(2 marks)

b) Write short notes on the following;

i. Integrated waste managementii. Environmental pollution(5 marks)(5 marks)

c) Describe the concepts of Recycle, Reduce and Re-use in waste management

(5 marks)

d) Briefly describe the importance of waste regulations

(5 marks)

e) Describe the process of biological waste treatment

(4 marks)

Question 2

a) Discuss the different methods of solid waste treatment and disposal (15 marks)

b) Discuss the main challenges affecting waste management in Kenya. (5 marks)

Question 3

Waste can be categorized depending on their source of generation, physical state and composition and properties. Discuss using relevant examples (20 marks)

Question 4

- a) You are a resident of Dandora Estate which is located 0.5 km from the Dandora dumpsite. Discuss some of the environmental and health challenges that you are likely to face. (12 marks)
- b) Discuss the importance of waste management (8 marks)

Question 5

- a) You have been hired as a waste management consultant to advice the County Government of Mombasa on the best approaches to solid waste management. What methods would you recommend. (15 marks)
- b) Discuss the disadvantages of open burning in solid waste management (5 marks)