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**TECHNICAL UNIVERSITY OF MOMBASA**

**FACULTY OF APPLIED AND HEALTH SCIENCES**

**DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR:**

**BACHELOR OF TECHNOLOGY IN RENEWABLE ENERGY AND  
ENVIRONMENTAL**

**AES 4343 : ENVIRONMENTAL WASTE MANAGEMENT**

**TECHNOLOGY (BTRE)**

**END OF SEMESTER EXAMINATION**

**SERIES: APRIL 2016**

**TIME: 2 HOURS**

**DATE: Pick Date Select Month 2016**

*Instructions to Candidates*

You should have the following for this examination

*Answer Booklet, examination pass and student ID*

This paper consists of **FIVE** Question(s). Attempt question ONE (Compulsory) and any other TWO questions.

**Do not write on the question paper.**

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**1. Question ONE**

(i) Define the following terminologies as used in waste management.

- a. Waste
  - b. Management
  - c. Environment
  - d. Disposal
  - e. Recycling
- (10 mks)

(ii) Differentiate between Landfill and crude dumping as methods of waste disposal.  
(5 mks)

(iii) (a) Write short notes on

(a) a – biotic environment

(b) Biotic environment

(5 mks)

(b) Define physical health and list all the qualities

(5 mks)

(c) Describe four determinants of health

(5 mks)

### **Question TWO**

There are basically three types of environments. Discuss chemical and biological environments fully and show their importance.

(20mks)

### **Question THREE**

There are different types of wastes as regard to waste management. Discuss fully showing the distinct difference of industrial waste from Biological wastes.

20 mks

### **Question FOUR**

Disposal of waste is a very important factor in a well managed environment. Discuss this describing Landfill as one method giving its merits and demerits.

(20 mks)

### **Question FIVE**

Scavenging is a common phenomenon in waste management. Discuss this highlighting its disadvantages.

20mks