



# Technical University of Mombasa

*Faculty of Engineering Technology*

**DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES**

DIPLOMA IN ELECTRICAL ENGINEERING  
(DEE 2)

**AES 2112 : ENVIRONMENTAL STUDIES**

**SPECIAL /SUPPLEMENTARY: EXAMINATIONS**

**SERIES: OCTOBER 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) Indoor air pollution (2marks)
  - (ii) Point source pollution (2marks)
- b) Explain FIVE sustainable ways of managing solid waste (5marks)
- c) Explain THREE environmental effects of air pollution (3marks)
- d) Describe bioaccumulation of heavy metals in aquatic food chain (4marks)
- e) Explain formation of acid rain (4marks)
- f) Differentiate renewable and potentially renewable resources using relevant examples (4marks)
- g) Explain the following global environmental issues
  - (i) Global warming (2marks)
  - (ii) Ozone layer depletion (2marks)
  - (iii) Environmental degradation (2marks)

### **Question TWO**

Explain the effect of exponential population growth rates in developing nations on the environment

**(15marks)**

### **Question THREE**

- a) Explain major causes of air pollution (8marks)
- b) Discuss air pollution control (7marks)

### **Question FOUR**

Describe the second schedule in EIA under the provisions of the EMCA Act 1999 (15marks)

### **Question FIVE**

Discuss technological advances in natural resource conservation (15marks)