



# Technical University of Mombasa

*Faculty of Engineering Technology*

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

DIPLOMA IN ELECTRICAL & ELECTRONICS ENGINEERING  
(DEEE)

**AES 2112 : ENVIRONMENTAL STUDIES**

**SUPPLEMENTARY/SPECIAL : EXAMINATIONS**

**SERIES: MARCH 2014**

**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) Explain two types of air pollution (4 marks)
- b) Define the following concepts using relevant examples
  - (i) Global commons (2 marks)
  - (ii) Global warming (2 marks)
- c) Describe five sustainable ways of solid waste management (5 marks)
- d) Explain two environmental and two health effects of air pollution (4 marks)
- e) Explain five advantages of carrying out an EIA before a project commissioning (5 marks)
- f) Explain the process of nutrient pollution in water bodies (4 marks)
- g) Describe the process of accumulation of heavy metals (4 marks)

## QUESTION TWO

Discuss the impacts of rapid population growth rates in developing countries to the environment (15 marks)

## QUESTION THREE

Discuss the following global environmental issues

- (i) Global warming (5 marks)
- (ii) Ozone layer depletion (5 marks)
- (iii) Acid rain (5 marks)

## QUESTION FOUR

- a) Discuss major source of air pollutants (7 marks)
- b) Describe the control and prevention of air pollution (8 marks)

## QUESTION FIVE

Describe the process of ISO 14001 certification (15 marks)