



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF **ENVIRONMENT AND HEALTH SCIENCE**

DIPLOMA IN ENVIRONMENTAL HEALTH (DEH 11M)

AES 2110 : ENVIRONMENTAL POLLUTION

SEMESTER: END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER, 2013

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

You should have the following for this paper

- *Answer booklet*

This paper consists of **FOUR** questions.

Answer Question **ONE (compulsory)** and any other **TWO** questions

*This paper consists of **THREE PRINTED** pages*

(Compulsory – Answer ALL Questions)

Question ONE

- (a) Distinguish between the following concepts:
- (i) Pollution and pollutants **(2 marks)**
 - (ii) Degradable pollutants and Non-degradable pollutants **(2 marks)**
 - (iii) Electrostatic precipitators and inertial collators **(2 marks)**
- (b) (i) Draw the relationship between atmospheric pollution and global warming. **(4 marks)**
- (ii) List **TWO** sources of water pollution. **(2 marks)**
- (c) (i) Describe the concept of soil salination. **(2 marks)**
- (ii) Explain measures that can be used to control soil pollution. **(4 marks)**
- (d) (i) Define photochemical smog. **(1 mark)**
- (ii) Explain **THREE** factors that influence the formation of photochemical smog. **(3 marks)**
- (e) (i) Describe **TWO** effects of noise pollution. **(2 marks)**
- (ii) Explain the concept of 3Rs in waste management. **(2 marks)**
- (f) (i) Explain the effect of marine pollution on aquatic organisms. **(2 marks)**
- (ii) Explain the economic importance of marine resources. **(2 marks)**

(Answer Any Other TWO Questions)

Question TWO

- (a) Describe the Greenhouse Effect of the atmosphere. **(5 marks)**
- (b) Establish measures to control induced Greenhouse Effect. **(4 marks)**
- (c) Discuss effects of Ozone layer depletion. **(6 marks)**

Question THREE

Discuss the process of waste water treatment.

(15 marks)

Question FOUR

Write short notes on the following:

- (a) Landfill
- (b) Incineration
- (c) Recycling

(5 marks)

(5 marks)

(5 marks)

Question FIVE

Discuss any **THREE** legal international instruments relevant to control environmental pollution.

(15

marks)