



TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Applied & Health Sciences

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES & ELECTRICAL ENGINEERING

DIPLOMA IN ELECTRICAL POWR ENGINEERING
(DEPE II)

AES 2130 ENVIRONMENTAL STUDIES

SPECIAL/SUPPLEMENTARY EXAMINATIONS

SERIES: JULY, 2014

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

-Answer **ALL** questions in **SECTION ONE** and any other **TWO** in **SECTION TWO**.
This paper consists of **TWO PRINTED** pages

SECTION ONE: COMPULSORY

QUESTION 1

a) Define the following terminologies:

Sustainable Development
Global warming.

(2 marks)
(2 marks)

b) List **TWO** types of the Global commons

(2 mark)

c) Briefly, describe the following waste disposal techniques:

(4 marks)

(i) Landfill

(4 marks)

(ii) Incineration

(4 marks)

(iii) Recycle

(4 marks)

d) Identify **FOUR** types of Environmental Management Tools.

(4 marks)

e) (i) Explain **TWO** sources of water pollution.

(4 marks)

(ii) Explain the Trickling Filter Process in sewage treatment process.

(4 marks)

SECTION TWO: Answer ANY TWO questions.

QUESTION 2

a) Discuss **THREE** environmental Issues associated with climate change.

(9 marks)

b) Suggest and explain appropriate solutions to the above mentioned problems.

(6 marks)

QUESTION 3

Describe any **FIVE** pollutants of water resources

(15 marks)

QUESTION 4

Expound on the following indicators of sustainable development:

(i) Ecological footprint

(5 marks)

(ii) Human Development Index

(5 marks)

(iii) Gross National Happiness
marks)

(5

QUESTION 5

Discuss the challenges of Environmental mainstreaming in the development process.

(15 marks)