



TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Applied & Health Sciences
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

CERTIFICATE IN TECHNOLOGY (ELECTRICAL POWER ENGINEERING)
(CEE II)

AES 1130
ENVIRONMENTAL STUDIES

SPECIAL/SUPPLEMENTARY EXAMINATIONS
SERIES: JULY, 2014
TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

-Answer question **ONE (COMPULSORY)** and any other **TWO**.
This paper consists of **TWO PRINTED** pages

QUESTION ONE (COMPULSORY)

- (a) Define the following terminologies:

- (I) Waste management. (2 marks)
- (II) Environmental restoration (2 marks)
- (III) Precautionary principle. (2 marks)
- (IV) Global warming (2 marks)

- (b) Outline **TWO** objectives of learning Environmental Studies. (4 marks)
- (c) Describe the drivers of E-waste production. (4 marks)
- (d) List **THREE** types of Renewable Energy Resources. (3 marks)
- (e) Explain how the following weather elements influence weather condition of a particular area:
 - (I) Wind (3 marks)
 - (II) Humidity (3 marks)
 - (III) Air pressure (3 marks)
- (f) Differentiate between degradable pollutants and Non-degradable pollutants. (2 marks)

QUESTION TWO

With appropriate examples, discuss any **FIVE** environmental issues associated with global warming in Kenya (15 marks)

QUESTION THREE

Discuss any **THREE** ways of sustainable waste disposal and management. (15 marks)

QUESTION FOUR

- (a) Describe **THREE** types of Air Pollutants (9 marks)
- (b) Explain appropriate measures to control air pollution at its source. (6 marks)

QUESTION FIVE

Write short notes on the following:

- (I) Environmental monitoring (5 marks)
- (II) Strategic Environmental Assessment. (5 marks)
- (III) Ecological Risk Assessment. (5 marks)