



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

CERTIFICATE IN ELECTRICAL POWER ENGINEERING
(CEPE II)

AES 1112: 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 3 PRINTED pages

QUESTION ONE

- a) Differentiate between the following terminologies:
- (i) Environmental presentation and Environmental protection (2 marks)
 - (ii) Pollution and pollutants (2 marks)
 - (iii) Renewable and Non-renewable energy resources (2 marks)
- b) Describe how the following weather elements influence environmental condition of a place:
- (i) Wind (2 marks)
 - (ii) Humidity (2 marks)
 - (iii) Precipitation (2 marks)
- c) (i) List two sources of water pollution (2 marks)
- (ii) Explain two ways to control water pollution (2 marks)
- d) (i) Outline two international conventions that regulate e-wastes (2 marks)
- (ii) Briefly explain polluter pay principle (2 marks)
- e) (i) State two objectives of environmental studies (2 marks)
- (ii) Identify two forms of energy (2 marks)
- f) (i) Explain the application of 3Rs concept in waste management (2 marks)
- (ii) Outline the elements of the scope of the environment (2 marks)

QUESTION TWO

- a) Briefly describe the greenhouse effect (5 marks)
- b) Discuss appropriate measures to control global warming (10 marks)

QUESTION THREE

Write short notes on the following:

- a) Strategic environmental assessment (5 marks)
- b) Environmental impacts Assessment (5 marks)
- c) Ecological Risk Assessment (5 marks)

QUESTION FOUR

Discuss relevant methods used in the management of electrical wastes (15 marks)

QUESTION FIVE

Discuss the impacts of energy production in Kenya

(15 marks)