



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

CERTIFICATE IN ELECTRICAL AND ELECTRONICS ENGINEERING
(CEEE)

AES 1112 : ENVIRONMENTAL STUDIES

SPECIAL/SUPPLEMENTARY: EXAMINATIONS

SERIES: OCTOBER 2013

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) Define the following terms
 - (i) Atmosphere (1mark)
 - (ii) Hydrosphere (1mark)
 - (iii) Lithosphere (1mark)
 - (iv) Biosphere (1mark)
- b) State THREE functions of the atmosphere (3marks)
- c) Explain any THREE elements of weather (5marks)
- d) Briefly describe the following concepts
 - (i) Polluter pays principle (2marks)
 - (ii) Precautionary principle (2marks)
- e) State any THREE importance's of learning environmental studies (3marks)
- f) State any FIVE ways of Air pollution control (5marks)
- g) Differentiate climate change and global warming (4marks)
- h) Highlight TWO types of non-renewable energy resources (2marks)

Question TWO

- a) Explain the effects of the following air pollutants on the environment
 - (i) Carbon dioxide (CO₂) (3marks)
 - (ii) Carbon Monoxide (CO) (3marks)
 - (iii) Oxides of Nitrogen (NO, NO₂) (3marks)
- b) Discuss THREE sources of water pollution (6marks)

Question THREE

- a) (i) Describe any TWO social consequences of e-wastes (4marks)
- (ii) Discuss TWO methods of wastes disposal systems (6marks)
- b) Explain various ways of wastes management and control (5marks)

Question FOUR

- a) Write short notes on the following
 - (i) Strategic Environmental Assessment (3marks)
 - (ii) Environmental impact Assessment (3marks)
 - (iii) Ecological Risk Assessment (3marks)
- b) Explain the effects of the following activities in relation to global warning

- (i) Deforestation
- (ii) Release of Greenhouse gases

(3marks)

(3marks)

Question FIVE

- a) With examples, discuss any FIVE environmental issues in Kenya **(10marks)**
- b) Describe the characteristics of Renewables Energy Resources citing examples in each **(5marks)**