

Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

CERTIFICATE IN ELECTRICAL POWER AND ENGINEERING (CEPE II)

AES 1112: ENVIRONMENTAL STUDIES

SEMESTER: EXAMINATIONS
SERIES: DECEMBER 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)	Defin	te the following concepts:	
u,	(i)	Environmental protection	(1 mark)
	(ii)	Environmental preservation	(1 mark)
	(iii)	Waste management	(1 mark)
	(iv)	Pollutants	(1 mark)
	(v)	Energy	(1 mark)
b)		With examples, identify TWO types of energy resources	(2 marks)
ŕ	(ii)	Explain any TWO significance of energy	(2 marks)
c)	(i)	Describe the functions of the atmosphere	(3 marks)
	(ii)	Explain how Air pressure influence wind movement	(4 marks)
d)	(i)	Differentiate between degradable pollutants and non-degradable pollutan	ts (2 marks)
	(ii)	Outline TWO ways of Air pollution control	(2 marks)
e)	(i)	Describe the attraction force of e-wastes	(4 marks)
	(ii)	Explain the concept of 3Rs in relation with the e-waste management	(2 marks)
f)	(i)	Justify why the Kenyan learning institutions should train environmental	
		studies	(2 marks)
	(ii)	Explain the applicability of precautionary principle	(2 marks)
QUES	STION	TWO	
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QUESTION FIVE

a) Explain the effects of the following air pollutants

(i) Carbon monoxide
(ii) Carbon dioxide
(iii) Oxides of sulphur
(3 marks)
(3 marks)
(5 marks)
(6 marks)