



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

Faculty of Engineering and Technology

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

CERTIFICATE IN ELECTRICAL POWER ENGINEERING

208 EEP 21

SOCIAL & ENVIRONMENTAL STUDIES

END OF SEMESTER TWO EXAMINATIONS SERIES: FEBRUARY 2011 SERIES TIME: 2 HOURS

Instructions to Candidates:

Answer Question **ONE**(**COMPULSORY**) and any other **TWO** Questions.

(COMPULSORY)

Question ONE

a)	i)	Briefly explain how atomic energy is produced.	(3 marks)
	ii)	State any TWO disadvantages of atomic energy.	(2 marks)
b)	i)	Define the term recycling.	(1 mark)
	ii)	State any TWO recyclable materials.	(1 mark)
	iii)	State the FOUR requirements to be met for recycling.	(4 marks)
	iv)	State any TWO importance of recycling.	(2 marks)
c)	i)	Define the term waste.	(1 mark)
	ii)	State any TWO types of wastes.	(1 mark)
	iii)	Explain any TWO methods that can be used to dispose off wastes.	(4 marks)
	iv)	Draw the waste hierarchy.	(4 marks)

d)	i)	State FOUR reasons why we need to manage and conserve the environme	ent. (4mks)
	ii)	List any THREE environmental hazards.	(3 marks)

(ANSWER ANY OTHER TWO QUESTIONS)

Question TWO

a)	i)	Define the term pollution.	(2 marks)
	ii)	State any THREE forms of pollution.	(3 marks)
b)	i)	Explain any TWO sources of air pollution.	(4 marks)
	ii)	State any THREE effects of air pollution.	(3 marks)
	iii)	State any FOUR measures that can be taken to curb pollution.	(4 marks)
c)	i)	Define the term pollutant.	(1 mark)
	ii)	State the THREE factors that determine the severity of a pollutant.	(3 marks)

Question THREE

a)	i)	Defin	e the term weapon.	(1 mark)
	ii)	State	FOUR reasons why people use weapons.	(4 marks)
	iii)	State any TWO examples for each of the following classification of weapons		
		I)	By user	
		II)	By function	
		III)	By target	(6 marks)

b)	State i) ii)	any TWO effects of military activities on: Environment Humans	(4 marks)
c)	State	the FIVE ideal characteristics of a biological weapon.	(5 marks)
<u>Ques</u> a)	tion FC	DUR Define the following terms: I) Climate II) Global warming	(3 marks)
b)	Expla	in any THREE effects of global warming.	(9 marks)
c)	State	any FOUR ways that can be used to reduce the effect of global warming.	(4 marks)
d)	i)	Explain the term ecosystem.	(2 marks)

i)Explain the term ecosystem.(2 marks)ii)State any TWO examples of ecosystems.(2 marks)

Question FIVE

a)	i)	Define the term energy.	(1 mark)
	ii)	Explain the TWO types of energy.	(4 marks)
	iii)	State any ONE example for each type of energy named in (a) (ii) above.	(2 marks)
	iv)	State any THREE significance of energy.	(3 marks)
	v)	State any TWO measures in which a government can undertake in order to	o conserve
		energy.	(3 marks)
b)	i)	Define the term energy crisis.	(1 mark)
	ii)	Explain any TWO causes of energy crisis.	(6 marks)