

MACHAKOS UNIVERSITY

University Examinations for 2016/2017

SCHOOL OF AGRICULTURE AND NATURAL RESOURCE MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL STUDIES

SECOND YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE IN ENVIRONMENTAL COMMUNITY DEVELOPMENT

ECD 209: CLIMATE CHANGE AND COMMUNITY LIVELIHOODS

Date: 9/12/2016

Time: 2 HOURS

INSTRUCTIONS This paper consists of FIVE questions. Attempt question ONE (Compulsory) and any other TWO questions

QUESTION ONE (COMPULSORY) (30 MARKS)

a)	Define the following terms:			
	i)	Weather	(2 marks)	
	ii)	Climate	(2 marks)	
	iii)	Climate change	(2 marks)	
	iv)	Emissions	(2 marks)	
	v)	Water cycle	(2 marks)	
	vi)	Resilience	(2 marks)	
	vii)	Vulnerability	(2 marks)	

b) Differentiate between MITIGATION and ADAPTATION to climate change.

(4 marks)

c) Name the TWO (2) key policy/legislative documents aimed at combating climate change in Kenya. (4 marks)

d)	i)	Explain what is meant by the term "the greenhouse effect"	(2 marks)
	ii)	Why the greenhouse effect is important to life on earth.	(2 marks)
	iii)	List FOUR (4) greenhouse gases.	(4 marks)

QUESTION TWO (20 MARKS)

a)	What FIVE (5) actions does the acronym REDD+ come from?	(5 marks)
b)	State TWO (2) differences between the Kyoto Protocol and REDD+.	(4 marks)
c)	Explain FIVE (5) actions that Parties to REDD+ are encouraged to take	to ensure the
	success of the initiative?	(10 marks)
d)	Why is the Kyoto Protocol considered a milestone in the politics of clim	ate change?
		(1 mark)

QUESTION THREE (20 MARKS)

Discuss FIVE (5) ways climate change will impact human beings in Africa. (20 marks)

QUESTION FOUR (20 MARKS)

Discuss TWO (2) constraints and TWO (2) opportunities arising from adaptation to climate change for each of these resources

a)	Water	(4 marks)
b)	Agriculture	(4 marks)
c)	Energy	(4 marks)
d)	Transport	(4 marks)
e)	Infrastructure	(4 marks)

QUESTION FIVE (20 MARKS)

Discuss FIVE (5) ways through which climate change directly and indirectly impacts women more than it impacts men. (20 marks)