



MACHAKOS UNIVERSITY

University Examinations for 2017/2018

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

**DEPARTMENT OF ENVIRONMENTAL STUDIES AND COMMUNITY
DEVELOPMENT**

**SECOND YEAR SECOND SEMESTER EXAMINATION FOR
BACHELOR OF ENVIRONMENTAL STUDIES (COMMUNITY DEVELOPMENT)
BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)
ECD 209: CLIMATE CHANGE AND COMMUNITY LIVELIHOODS
ERC 210: CLIMATE CHANGE AND GLOBAL WARMING**

DATE: 19/12/2017

TIME: 11.00-1.00 PM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) What is the difference between the following terms?
 - i. Weather and climate (4 marks)
 - ii. Mitigation and adaptation (4 marks)
 - iii. Resilience and vulnerability (4 marks)
- b)
 - i. Explain “the greenhouse effect” (2 marks)
 - ii. Describe the greenhouse effect’s relevance to the biosphere (4 marks)
- c) Explain the impacts of climate change in Kenya (12 marks)

QUESTION TWO (20 MARKS)

Discuss different climate change scenarios under the following:

- a) Special Report on Emissions Scenarios (10 marks)
- b) Relative Concentration Pathways (10 marks)

QUESTION THREE (20 MARKS)

Discuss the CONSTRAINTS and OPPORTUNITIES arising from adaptation and mitigation to climate change in four different sectors in Kenya. (20 marks)

QUESTION FOUR (20 MARKS)

Discuss how climate change directly and indirectly impacts women more than it affects men. (20 marks)

QUESTION FIVE (20 MARKS)

Critically evaluate the Kenyan Climate Change Act (2016) in terms of key actions and expected outcomes. (20 marks)