



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEARSEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (COMMUNITY DEVELOPMENT)

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

ENS 242: GLOBAL WARMING AND CLIMATE CHANGE

ERC 210: GLOBAL WARMING AND CLIMATE CHANGE

DATE:

TIME:

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Differentiate between the following terms:
 - i. Weather and climate (4 marks)
 - ii. Mitigation and adaptation (4 marks)
 - iii. Resilience and vulnerability (4 marks)
- b) Describe the “greenhouse effect” and explain its importance to human beings (8 marks)
- c) Africa is one of the most vulnerable regions in the world to climate change.
 - i. Explain the factors that contribute to this? (4 marks)
 - ii. Name THREE (3) impacts of climate change in Kenya (6 marks)

QUESTION TWO (20 MARKS)

Discuss the constraints and opportunities arising from adaptation to and mitigation of climate change in any TWO (2) economic sectors in Machakos County

QUESTION THREE (20 MARKS)

Discuss the families that fall under the Special Report of Emissions Scenarios

QUESTION FOUR (20 MARKS)

- a) State TWO (2) difference between the two Kyoto Protocol and REDD+ (4 marks)
- b) What does the acronym REDD+ stand for and what FIVE (5) activities does it entail?
(6 marks)
- c) What FIVE (5) actions are Parties to REDD+ encouraged to take to ensure the success of the initiative?
(10 marks)

QUESTION FIVE (20 MARKS)

Using examples, discuss gendered impacts of climate change in the Kenya.