



MACHAKOS UNIVERSITY

University Examinations for 2022/2023 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR FIRST SEMESTER EXAMINATION FOR

**BACHELOR OF ENVIRONMENTAL STUDIES (COMMUNITY
DEVELOPMENT)**

BACHELOR OF SCIENCE (COMMUNITY RESOURCE MANAGEMENT)

ECD 206: CLIMATE CHANGE AND COMMUNITY LIVELIHOODS

ENS 242: CLIMATE CHANGE AND GLOBAL WARMING

ERC 210: CLIMATE CHANGE AND RESOURCES MANAGEMENT

DATE:

TIME:

INSTRUCTIONS: Answer question ONE and TWO other questions

QUESTION ONE (30 Marks)

- a) Differentiate between:
- i. Climate and weather (4 marks)
 - ii. Climate change and climate variability (4 marks)
- b) Explain the two forms of carbon trading (4 marks)
- c) Explain the policies and legislations governing climate change management in Kenya (10 marks)
- d) Explain the linkages between climate change and development (8 marks)

QUESTION TWO (20 MARKS)

Citing relevant examples, discuss livelihood vulnerability to climate change for a community of your choice.

QUESTION THREE (20 MARKS)

Discuss mitigation strategies to curb global warming and climate change in the following sectors:

- a. Transport (10 marks)
- b. Agriculture (10 marks)

QUESTION FOUR (20 MARKS)

Citing relevant examples, discuss the impacts of climate change on the water sector

QUESTION FIVE (20 MARKS)

Discuss strategies at the national and local level to address the climate change challenge in Kenya.