



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

FOURTH YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT

AGR 483: CLIMATE CHANGE AND ADAPTATION IN AGRICULTURE

DATE: 24/7/2019

TIME: 11.00-1.00 PM

INSTRUCTIONS:

Answer question ONE and ANY TWO questions

QUESTION ONE (30 MARKS)

- a) Explain the following terms ?
- i. Weather (2 marks)
 - ii. Climate (2 marks)
 - iii. Climate change (2 marks)
 - iv. Carbon Sequestration (2 marks)
 - v. Disaster (2 marks)
- b) Describe the different between
- i. adaptation and mitigation to climate change impacts in agriculture (4 marks)
 - ii. Resilience and vulnerability (4 marks)
- c) Explain “the greenhouse effect” and it’s effect on weather systems (4 marks)
- d) Describe the explicit and implicit purposes estimation of vulnerability serves (8 marks)

QUESTION TWO (20 MARKS)

Using Kenya as an example, discuss the impacts of climate change various on aspects of agriculture and management responses.

QUESTION THREE (20 MARKS)

- a) Discuss the actions Parties to REDD+ are encouraged to take to ensure the success of the initiative? (12 marks)
- b) What are the FOUR key targets of The Paris Agreement? (8 marks)

QUESTION FOUR (20 MARKS)

Discuss the constraints and opportunities arising from adaptation and mitigation of impacts of climate change (20 marks)

QUESTION FIVE (20 MARKS)

Discuss the various adaptation strategies that are being employed to deal with climate-related disasters in Kenya (20 marks)