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MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2017/2018

**FOURTH YEAR FIRST SEMESTER EXAMINATION FOR
THE DEGREE OF BACHELOR OF SCIENCE IN CLIMATE
CHANGE AND DEVELOPMENT WITH
INFORMATION TECHNOLOGY**

MAIN CAMPUS

NCA 409: CLIMATE SMART AGRICULTURE

Date: 27th February, 2018

Time: 3.30 - 11.30am

INSTRUCTIONS:

- Answer Question ONE and any other TWO
- Use diagrams and illustrations whenever appropriate



1. (a) Explain FIVE broad negative impacts of climate change on global agricultural systems [10 marks]
(b) Describe FOUR climate smart technologies used to reduce the impacts of climate change in the various agricultural systems practiced in Kenya. [8 marks]
(c) Explain the role of agricultural institutions in enhancing climate smart agriculture in Kenya. [12 marks]
 2. Discuss the various climate smart agricultural technologies and practices used in reducing the impacts of decreased precipitation in Kenya [20marks]
 3. a) Describe FOUR main technologies and practices used to reduce the impacts of climate change as related to climate smart agriculture [12 marks]
(b) Explain FOUR land use practices that enhance impacts of climate change on agriculture [8 marks]
 4. Explain key climate smart agriculture practices applicable in the following sectors
a) Crops [5marks]
b) Fisheries [5marks]
c) Livestock [5 marks]
d) Integrated livestock and crop farming [5 marks]
 5. Explain the expected impacts of sea level rise, salinization, increased green house gases and temperature rise on global Agricultural practices (20marks)
 6. Discuss the role of urban and peri-urban agriculture in reducing the impacts of Climate Change in agricultural sector. [20 marks]
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