



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2015/2016

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

MAIN CAMPUS

NCA 407: ADAPTATION OF URBAN SYSTEMS TO CLIMATE CHANGE

Date: 27th April, 2016

Time: 11.00 - 1.00 pm

INSTRUCTIONS:

- Answer question ONE and any other TWO questions.
- Sketch maps and diagrams should be used whenever appropriate.



NCA 407 ADAPTATION OF URBAN SYSTEMS TO CLIMATE CHANGE

1. Define the following concepts ;
 - a) Urban systems (10 marks)
 - b) Clean Development Mechanism (10 marks)
 - c) Explain why urban systems should be strengthened against climate change (10 marks)

2. Analyse the impact of Green House Gases (GHGs) in Kenyan cities (20 marks)

3. Discuss how energy and sanitation influence vulnerability of urban residents to climate change. (20 marks)

4. Climate change adaptation in cities is a smart option for East African cities. Discuss (20marks)

5. Describe **FIVE** significant risk drivers that a climate change student can examine from urban systems in Kenya (20 marks)

6. a) Discuss the Impacts of climate change on the transport sector (10 marks)

b) Explain the adaptation mechanism within urban transport systems in Kenya (10 marks)