

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2016/2017

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

MAIN CAMPUS

NCA 407: ADAPTATION OF URBAN SYSTEM TO CLIMATE CHANGE

Date: 8th December, 2016

Time: 8.30 - 11.30 am

INSTRUCTIONS:

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

ISO 9001:2008 CERTIFIED



1. Write short notes on the following;

a) Urban land use

(10 marks)

b) Urban systems

(5 marks)

c) Vulnerability of systems

(15 marks)

- Discuss the significance of preparing urban systems for climate change adaptation (20 marks).
- Examine how the following sectors are affected by climate change in cities of Africa;

a) Energy

(10 marks)

b) Public health

(10 marks)

- Explain FIVE tools for adaptation of urban systems to climate change (20 marks)
- Discuss factors that will challenge urban planners while implementing the Climate Change Act, 2016 in Kenya. (20 marks)
- Explain the options, barriers and strategies for adaptation of the following sectors; transport, industrial sector and waste sector (20 marks).