

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2013/2014

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

(MAIN CAMPUS)

NCA 202: CLIMATE CHANGE IMPACTS AND VULNERABILITIES

Date: 22rd November, 2013

Time: 8.30 - 10.30 a.m.

INSTRUCTIONS:

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

NCA202: CLIMATE CHANGE IMPACTS AND VULNERABILITY

(a)	Differentiate	between	the	following	with	reference	to climate	change:
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Potential impacts and Residual impacts.

[4 marks]

Adaptation and adaptive capacity.

[4 marks]

- (b) Outline any SIX generic signs of vulnerability to climate change applicable to all countries of the world. [6 marks]
- (c) Explain the THREE categories of issues that must be considered before beginning a climate change vulnerability assessment.[6 marks]
- (d) Explain any five reasons why developing countries are more vulnerable to droughts than developed countries.

[10 marks]

- Discuss any FIVE factors to consider while undertaking climate sensitivity analysis of a forest ecosystem. [20 marks
- Discuss any FIVE strategies utilized in Kenya to adapt to recurrent floods.
 [20 marks]
- Discuss the impacts associated with climate change on agriculture and pastoralism in most African countries. [20 marks]
- 5.(a) Examine the barriers that can limit a coastal system's ability to adapt to a rise in sea- level [8 marks]
 - (b) Explain any FOUR reasons why climate change vulnerability assessments should be done regularly. [12 marks]
- Explain the vulnerabilities and impacts associated with climate change on the following sectors in Kenya:

a) Energy sector

[10 marks]

b) Health sector

[10 marks]