



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2016/2017

**THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN GEOSPATIAL
INFORMATION SCIENCE WITH INFORMATION
TECHNOLOGY**

CITY CAMPUS

**NCA 302: GLOBAL RESPONSES TO CLIMATE
CHANGE**

Date: 25th November, 2016

Time: 2.00 - 5.00. pm

INSTRUCTIONS:

- Answer question ONE and any other TWO questions.



NCA 302: GLOBAL RESPONSES TO CLIMATE CHANGE
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ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS

- 1.(a) In the history of climate change, some major milestones have been made. Highlight some of the most important events in the history of climate change science. (10 marks)
- b) Discuss the role of Intergovernmental Panels on Climate Change (IPCC) in mitigating climate change. (10 marks)
- c) Explain why the debate about "Who Should Reduce Emissions and By How Much" is one of the most contested and difficult questions in the international climate negotiations. (5 marks)
- d) Highlight five evidences of climate change. (5 marks)
2. Outline some of the key events in the international community's fight against climate change. (20 marks)
3. There are three major approaches to climate change mitigation as listed below. Outline actions that will be taken under each approach in order to achieve climate change mitigation.
- a) Decisive local, national and international action to prevent & minimize the worst consequences of climate change
- b) Ensuring most vulnerable communities adapt to the inevitable changes of global warming.
- c) Trusting the free market to lead the way in the search for solutions

d) Inappropriate climate change mitigation measures often lead to natural disasters. Using a relevant example illustrate the impact that a natural disaster can have on a population. (20 marks)

4. Discuss the manner in which sector specific approaches to climate change mitigation can be achieved in the followings fields:

- a) Transport
- b) Urban Planning
- c) Building design
- d) Agriculture
- e) Societal controls

(20 marks)

5. Implementation is the most important, expensive and least appealing aspect of environmental governance which puts into effect climate change mitigation strategies and targets. Discuss this phase while highlighting the role the Global Environmental Facility (GEF) in implementation. (20 marks)

6. Many countries, both developing and developed, are aiming to use cleaner technologies. Discuss avenues through which they can encourage use changes in order to reduce green house gas emissions. (20 marks)