

# TECHNICAL UNIVERSITY OF MOMBASA p1

Faculty of Applied & Health Sciences

Department of Environment & Health Sciences

University Examination for the Degree of Bachelor of Science in Marine Resource  
Management

BSMR 13S/YEAR 3/SEMESTER 2

Code: AES 4306: Climate change impacts and interventions

SEMESTER EXAMINATION

SERIES: MAY/2016

TIME: 2HRS

## **Instructions to Candidates**

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions

**This paper consists of two printed pages**

## **QUESTION ONE**

- a) Outline 5 components of the climate system (5 mks)
- b) Describe Induced Greenhouse Effect (5 mks)
- c) Differentiate between climate change and global warming (5 mks)
- d) Briefly describe the vulnerability of the coastal community to climate change (5 mks)
- e) What is Kyoto Protocol? Explain its significant contribution to climate change mitigation (5 mks)
- f) List any five types of GHGs (5 mks)

## **QUESTION TWO**

- a) Differentiate between Tropospheric and Stratospheric ozone and give their significance (10 mks)
- b) Land Use Change is known to be a significant cause of climate change. Discuss (10 mks)

## **QUESTION THREE**

- a) Discuss the impacts of climate change in agriculture (20 mks)

## **QUESTION FOUR**

Coastal forests are important natural resources that support diversity of species and attract foreign exchange to Kenya. Discuss the adaptation measures that the coastal community need to engaged on to protect it from climate change impacts (20 mks)

## **QUESTION FIVE**

- a) What is Green Mechanisms in climate change mitigation? With examples, explain four types of green mechanisms (10 mks)
- b) Highlight FIVE issues that are likely to impact the coastal community as a result of climate change (10 mks)