

UNIVERSITY OF SWAZILAND

DEPARTMENT OF GEORAPHY, ENVIRONMENTAL SCIENCE AND PLANNING

MAIN EXAMINATION: MAY, 2015

MSc.

TITLE OF PAPER : CLIMATE CHANGE AND THE ENVIRONMENT

COURSE NUMBER : ERM 621

TIME ALLOWED : THREE (3) HOURS

INSTRUCTIONS : ANSWER 1 QUESTION FROM EACH SECTION
ILLUSTRATE YOUR ANSWERS WITH
APPROPRIATE DIAGRAMS

MARKS ALLOCATED : ALL QUESTIONS CARRY EQUAL MARKS

**THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED
BY THE INVIGILATOR**

ERM 621: CLIMATE CHANGE AND THE ENVIRONMENT (May, 2015)

SECTION A

ANSWER ONE QUESTION

QUESTION 1

- a) Discuss the causes and effects of the greenhouse gas effect. (25 marks)
 - b) Explain two approaches used in downscaling General Circulation Models (GCMs) results. (25 marks)
- (50 Marks)**

QUESTION 2

With reference to Swaziland discuss the adaptation strategies, to the expected impacts of climate change on the sector of water resources. (50 Marks)

SECTION B

ANSWER ONE QUESTION

QUESTION 3

Discuss the politics of climate change with reference to the expiration of the Kyoto Protocol in 2012. (50 Marks)

QUESTION 4

Discuss the major purpose of the clean development mechanism (CDM).

(50 Marks)