

CHUKA



UNIVERSITY

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RESITS/SPECIAL EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE IN ENVIRONMENTAL SCIENCE**

ENSC 471: CLIMATE CHANGE AND THE ENVIRONMENT

STREAMS:

TIME: 2 HOURS

DAY/DATE: THURSDAY 31/8/2023

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS

- **Answer all in section A and any other two in section B.**
- **Do not write anything on the question paper**

SECTION A: (30 MARKS)

1. Differentiate the following terms as used in climate change.
 - a) Market impacts and non-market impacts. (4 marks)
 - b) Internal climate variability and external climate variability. (4 marks)
 - c) Natural and anthropogenic drivers of climate change. (4 marks)
2. Briefly discuss forms of vulnerability to climate change prevalent in developing countries. (6 marks)
3. Briefly explain the influence of the atmospheric system on climate change. (6 marks)
4. Using an illustration, differentiate negative from positive climate feedback. (6 marks)

SECTION B: 40 MARKS

5. Discuss the strategies applicable in climate smart agriculture. (20 marks)
6. Discuss barriers to climate change mitigation and adaptive capacity. (20 marks)
7. a) Using examples, discuss various levels of climate change governance. (10 marks)
b) Discuss climate change justice as a tool for climate change governance. (10 marks)