

### OFFICE OF THE DEPUTY VICE CHANCELLOR ACADEMICS, RESEARCH AND STUDENT AFFAIRS

# UNIVERSITY EXAMINATIONS 2023/2024 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER REGULAR MAIN EXAMINATION

## FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS)

**COURSE CODE: GEO 310** 

**COURSE TITLE: CLIMATOLOGY** 

DATE: 21<sup>ST</sup> DECEMBER, 2023

TIME: 9.00AM - 12.00PM

#### **INSTRUCTION TO CANDIDATES**

SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

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#### **GEO 310: CLIMATOLOGY**

STREAM: BED (Arts)

**DURATION: 3 Hours** 

#### **INSTRUCTIONS TO CANDIDATES**

- i. Answer Question ONE and any other TWO questions.
- ii. Maps and diagrams should be used whenever they serve to illustrate the answer.
- iii. Do not write on the question paper.

#### **Question One**

a) Explain the following terms as used in climatology:

	i.	Climate variability	(2 Marks)
	ii.	Dynamic climatology	(2 Marks)
	iii.	Climate vulnerability	(2 Marks)
	iv.	Mitigation	(2 Marks)
b)	Outline how climatology relies on meteorology. (4 Marks)		
c)	Highlight THREE incidences that point to global warming in Africa. (6 Marks)		
d)	According to Kenya Climate Change Working Group adaptation is key in dealing with		
	climate change and variability in Kenya. Discuss appropriate strategies which the country		
	can ad	opt toward adaptation.	(12 Marks)

#### **Question Two**

b)

a) Explain how the following factors affect temperature:

(i) Cloud cover	(3 Marks)
(ii) Characteristics of the surface	(3 Marks)
(iii) Latitude	(3 Marks)
(iv) Continentality	(3 Marks)
Describe any FOUR forms of precipitation.	(8 Marks)