

THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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SEPTEMBER -DECEMBER 2021

FACULTY OF ARTS AND SOCIAL SCIENCES

DEPARTMENT OF HUMANITIES (GEOGRAPHY)

REGULAR PROGRAMME

GEO 310: ATMOSPHERE AND SOIL SYSTEMS

Date: DECEMBER 2021 Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any TWO Questions

Q1.

a. Define the following terms

	İ.	climate	(2marks)
	ii.	global cooling	(2marks)
	iii.	climate indices	(2marks)
	iv.	soil texture	(2marks)
	٧.	vegetation climax	(2marks)
b.	. Explain any 5 importance of carbon dioxide in the atmosphere		(5marks)
C.	. Illustrate the thermal layers and describe their characteristics		(10marks)
d.	I. Explain how the prevailing winds affect the climate of a region		

Q2. Expound on the three indices of climate classification

(20marks)

Q3.

a. Explain the types of ecological successionb. Explain the concept of the Biosphere(10marks)

Q4.

a. Elaborate on the factors that influence soil formation? (10marks)b. Expound on vegetation classification in the world (10marks)

Q5.

- a. Expound on the factors affecting soil development (10marks)
- b. Describe the passage of shortwave radiation from the from the sun to the earth's surface (10marks)

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