

GEO 310



**ALUPE UNIVERSITY**

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

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**UNIVERSITY EXAMINATIONS**

**2024/2025 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER REGULAR MAIN  
EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF  
EDUCATION**

**COURSE CODE: GEO 310**

**COURSE TITLE: CLIMATOLOGY**

**DATE: 14<sup>TH</sup> JANUARY, 2025**

**TIME: 2.00PM – 5.00PM**

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**INSTRUCTION TO CANDIDATES**

- SEE INSIDE

**THIS PAPER CONSISTS OF 2 PRINTED PAGES**

**PLEASE TURN OVER**

**GEO 310: CLIMATOLOGY**

**STREAM: BED (Arts)**

**DURATION: 3 Hours**

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**INSTRUCTIONS TO CANDIDATES**

- i. *Answer Question ONE and any other TWO questions.*
- ii. *Do not write on the question paper*

**Question One**

- a) Briefly explain the meaning of the following terms:
  - i. Climate (2 Marks)
  - ii. Weather (2 Marks)
  - iii. Climate change (2 Marks)
  - iv. General atmospheric circulation (2 Marks)
- b) Examine the relationship between climatology and meteorology. (4 Marks)
- c) Giving relevant examples highlight classification of climatology in terms of geographical study area. (6 Marks)
- d) Discuss how climate influence human and economic activities on the earth surface. (12 Marks)

**Question Two**

- a) Describe how the following elements of climate are measured in a weather station:
  - (i) Rainfall (4 Marks)
  - (ii) Air temperature (4 Marks)
  - (iii) Wind (4 Marks)
- b) Explain characteristics of a site for establishing a meteorological enclosure. (8 Marks)

**Question Three**

Discuss any FOUR major determinants of climate variability around the world. (20 Marks)

**Question Four**

Describe the classification of world climate according Koppen's empirical classification scheme. (20 Marks)

**Question Five**

Discuss the formation of any FOUR major forms of precipitation which are key components of climate. (20 Marks)

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