

GEO 310



ALUPE UNIVERSITY

OFFICE OF THE DEPUTY VICE CHANCELLOR

ACADEMICS, RESEARCH AND STUDENTS AFFAIRS

UNIVERSITY EXAMINATIONS

2022/2023 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: 9/12 /2022

TIME: 9.00AM- 12.00PM

INSTRUCTION TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

GEO 310: CLIMATOLOGY

STREAM: BED (Arts)

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

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

Question One

- a) Define the following terms:
 - i. Climate (2 Marks)
 - ii. Weather (2 Marks)
 - iii. Climate change (2 Marks)
 - iv. General atmospheric circulation (2 Marks)
- b) Explain how climatology and meteorology are related. (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 classification of world climate according to Koppen's empirical classification scheme. (20 Marks)

Question Five

Discuss formation of any FOUR major forms of precipitation as a key component of climate. (20 Marks)
