



KISII UNIVERSITY

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF THE
DEGREE OF BACHELOR OF EDUCATION (ARTS)
SECOND SEMESTER, 2021/2022
(FEBRUARY - JUNE, 2022)**

GEOG 124: INTRODUCTION TO CLIMATOLOGY

STREAM: Y1 S2

TIME: 2 HOURS

DAY:

DATE:

INSTRUCTIONS

- 1. Do not write anything on this question paper.***
- 2. Answer Question ONE [Compulsory] and any other TWO Questions.***

QUESTION ONE

Elaborate on the following concepts/terms

- | | |
|-----------------------------|-----------|
| a) Dry adiabatic lapse rate | [5 Marks] |
| b) Atmospheric stability | [5 Marks] |
| c) Condensation nuclei | [5 Marks] |
| d) Climate classification | [5 Marks] |
| e) Climatic zones | [5 Marks] |
| f) Energy balance | [5 Marks] |

QUESTION TWO

Elaborate on the milestone with the development of meteorology and climatology.

[20 Marks]

QUESTION THREE

Describe climate classification as per Koppen classification system.

[20 Marks]

QUESTION FOUR

Explain the factors that influence atmospheric circulation. [20 Marks]

QUESTION FIVE

Write notes on cloud formation and precipitation process. [20 Marks]