



UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF
BACHELOR OF ARTS IN GEOGRAPHY
SECOND SEMESTER 2023/2024
[JAN – APRIL, 2024]**

GEOG 124: INTRODUCTION TO CLIMATOLOGY

STREAM: Y1 S2

TIME: 2 HOURS

DAY: TUESDAY, 12:00 - 2:00 P.M

DATE: 09/04/2024

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) Adiabatic lapse rate | (5 Marks) |
| b) Greenhouse effect | (5 Marks) |
| c) Climate variability | (5 Marks) |
| d) Climate classification | (5 Marks) |
| e) Climate change | (5 Marks) |
| f) Energy budget | (5 Marks) |

QUESTION TWO

Discuss the contributions of the Chinese and Greeks in the development of meteorology and climatology. (20 Marks)

QUESTION THREE

Discuss climate classification as per Thornthwaite classification system.
(20 Marks)

QUESTION FOUR

With the aid of a diagram, describe the vertical stratification of the atmosphere.
(20 Marks)

QUESTION FIVE

Account for the solar radiation received in the upper atmosphere.
(20 Marks)