

210



(University of Choice)

**MASINDEMULIROUNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

(MAIN EXAM)

**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

**FOURTH YEAR FIRST SEMESTER EXAMINATIONS
FOR THE DEGREE
OF
BACHELOR OF EDUCATION (ARTS)**

COURSE CODE: GEO 421

COURSE TITLE: CLIMATOLOGY

DATE: Thursday 7th December, 2023

TIME: 12:00-2:00PM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS.

USE ILLUSTRATIONS TO ADD VALUE.

TIME: 2 HOURS

**MMUST OBSERVES ZERO TOLERANCE TO EXAMINATION
CHEATING**

QUESTION ONE.

Write explanatory notes on the following:

- i. Development of Climatology (5marks)
- ii. Solar radiations. (5marks)
- iii. Elements of weather (5marks)
- iv. Precipitation formation. (5marks)
- v. Frontal rainfall. (5marks)
- vi. Seasonal Winds. (5marks))

QUESTION TWO.

- i. Discuss the main factor influencing infiltration process. (10 marks)
- ii. Differentiate between land breeze and sea breeze winds. (10 marks)

QUESTION THREE.

With aid of well labeled diagram, describe the hydrological cycle. (20 marks)

QUESTION FOUR.

- i. Apart from altitude, discuss any Five factors influencing weather and climate of a given place. (10 marks)
- ii. Explain **Five** functions of the atmospheric air. (10 marks)

QUESTION FIVE.

- i. With well drawn and labelled diagram, account for solar radiation from the sun. (10 marks)
- ii. Man has played a vital role in climate change process. Discuss. (10 marks)