



KIBABII UNIVERSITY

UNIVERSITY EXAMINATION

ACADEMIC YEAR 2020/2021

SPECIAL/SUPPLEMENTARY EXAMINATION

FIRST YEAR FIRST SEMESTER EXAMINATIONS

BACHELOR OF ARTS IN EDUCATION

COURSE CODE: GEO 421

COURSE TITLE: CLIMATOLOGY

DATE: JANUARY 7, 2022

TIME: 2 - 4 PM

DURATION: 3HOURS

INSTRUCTIONS TO CANDIDATES

Answer QUESTION ONE AND ANY OTHER TWO QUESTIONS.



KIBU observes ZERO tolerance to examination cheating This

Paper Consists of 3 Printed Page. Please Turn Over.



Kibabii University ISO 9001:2015 Certified
Knowledge for Development

QUESTION 1

- a. Explain the mechanisms involved in following atmospheric processes:
- i. Convection (5 marks)
 - ii. Advection (5 marks)
- b. Describe the stratosphere as a layer of the atmosphere. (8 marks)
- c. Describe the processes involved in thermal formation and uplift. (12 marks)

QUESTION 2

- a. Explain any two components of Milankovitch Cycle and their relevance in climate variation. (6 marks)
- b. Discuss the role of human beings in global climate change. (14 marks)

QUESTION 3

Describe any four factors used in climate classification. (20 marks)

QUESTION 4

Discuss the different anthropogenic causes of desertification (20 marks)

QUESTION 5

Discuss the potential impacts of climate change on marine and fresh water resources in Africa (20 marks)