



*(Knowledge for Development)*

**KIBABII UNIVERSITY**

**UNIVERSITY EXAMINATIONS  
2024/2025 ACADEMIC YEAR**

**SECOND YEAR FIRST SEMESTER  
MAIN EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE**

**COURSE CODE: AAG 2110**

**COURSE TITLE: AGRO-CLIMATOLOGY**

**DATE: 21<sup>ST</sup> JANUARY 2025**

**TIME: 11 – 1 PM**

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**INSTRUCTIONS TO CANDIDATES**

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

1. (A) Distinguish between the following terms
  - I. Weather and Climate (4 marks)
  - II. Agricultural meteorology and climatology (4 marks)(B) Discuss the importance of agroclimatology in farming (14 marks)  
(C) Outline the objectives of climate modeling (8 marks)
2. (A) Distinguish between climate and agro-climatic zones (4 marks)  
(B) Identify and discuss the factors that inform agricultural zoning (16 marks)
3. Describe the elements of weather and their influence on crop production (20 marks)
4. (A) State and explain the types of climate zones found in Kenya (10 marks)  
(B) State factors that guide climate zoning (10 marks)
5. Discuss how climate change affect food security of a community (20 marks)