



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2021 / 2022 ACADEMIC YEAR

SECOND YEAR 1ST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE AND
BIOTECHNOLOGY & BACHELOR OF EDUCATION SCIENCE**

COURSE CODE: AAG 231/AAG 211/SAB 231

COURSE TITLE: AGRICLIMATOLOGY

DATE: 25TH JULY 2022

TIME: 11AM – 1 PM

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

1. (a) Define the following terms: -

(i) Biofuel

(ii) Silviculture

(iii) Soil degradation

(iv) Global warming

(v) Renewable resource (5 marks)

(b) List five examples of renewable resources (5 marks)

(c) State five applications of agricultural meteorology (5 marks)

(d) Define the green house effect and explain its significance (5 marks)

(e) List five human activities that alter the water cycle (5 marks)

(f) List five weather monitoring equipment in a weather station (5 marks)

2. Discuss the socio-economic and environmental concerns leading to the extended ban on logging in the country vide Kenya Gazette Notice No. 1938 dated 26th February 2018.

(20 marks)

3. Describe the water cycle and explain the different processes that lead to movements and phase changes in water. (20 marks)

4. a) Discuss global warming stating the causes and effects of this phenomenon. (12 marks)

b) Highlight the mitigative measures of global warming. (8 marks)

5. Explain the classification of Kenyan rangelands and its relevance to the potential agricultural activities. (20 marks)