

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
EDUCATION

AGRI 211: AGRO-CLIMATOLOGY

STREAMS: B. ED

TIME: 2 HOURS

DAY/DATE: TUESDAY 09/04/2024

2.30 P.M. – 4.30 P.M.

INSTRUCTION

- Answer all questions in section A and any two in section B

SECTION A (30 marks)

Question one

Explain the setting and use of thermometers in the Stevenson screen to measure temperature and humidity. (8 marks)

Question two

Explain six forms of precipitation (6 marks)

Question three

- a) Using an example, demonstrate how an evaporation pan can be used to calculate the amount of rainfall received or amount of water evaporated per day. (4 marks)
- b) Proof that the freezing point and boiling point of water of water is $0^{\circ}\text{C}/32^{\circ}\text{F}$ and $100^{\circ}\text{C}/212^{\circ}\text{F}$. (4 marks)

Question four

Explain greenwashing and demonstrate seven tactics employed to achieve it in climate change discussions (8 marks)

SECTION B (40 marks)

Question five

- a) Explain the occurrence of agricultural drought and seven types of such drought. (8 marks)
- b) Explain three important categories of plants growing in the areas facing draught and their survival mechanisms. (6 marks)
- c) Explain what is wind and the five different forces which control wind. (6 marks)

Question six

- a) Explain eight consequences of climate change in the world. (16 marks)
- b) Explain four important considerations in setting up a Stevenson screen. (4 marks)

Question seven

- a) Explain six factors that control the climate of a place. (12 marks)
- b) Outline eight major differences between weather and climate. (8 marks)

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