



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

FOURTH YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF ARTS

AGE 409: APPLIED CLIMATOLOGY

DATE: 2/12/2019

TIME: 11.00-1.00 P

INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) Discuss any 5 subfields of climatology (10 marks)
- b) Writes notes on the following
 - i. Climate variability (3 marks)
 - ii. Global warming (4 marks)
 - iii. Climate vulnerability (3 marks)
- c) Discuss the **rationale** of climatic data to developing countries in different fields (10 marks)

QUESTION TWO (20 MARKS)

Climate change is a **major** challenge facing the world today. Discuss

QUESTION THREE (20 MARKS)

Examine the micro- climate applications in both agriculture and urban planning

QUESTION FOUR (20 MARKS)

Examine the following

- a) The process of analyzing data for dissemination (10 marks)
- b) Data collection procedures for any climatic variable (10 marks)

QUESTION FIVE (20 MARKS)

Examine the **links** between climate change and the following:

- a) Pests and diseases (5 marks)
- b) Human Health (5 marks)
- c) Communication and transportation (10 marks)