



MACHAKOS UNIVERSITY

University Examinations For 2018/2019 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCE MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FIRST YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

HPH 107: CLIMATE CHANGE AND HEALTH

DATE: 9/5/2019

TIME: 2:00 – 4:00 PM

INSTRUCTIONS: Answer question ONE and any other TWO questions

QUESTION ONE (compulsory) (30 Marks)

- a) Explain the following terms
- i) Weather (2 marks)
 - ii) Climate (2 marks)
 - iii) Climate change (2 marks)
 - iv) Climate variability (2 marks)
 - v) Impacts (2 marks)
- b) Differentiate between adaptation and mitigation measures employed to deal with climate change (4 marks)
- c) Describe the following concepts and how they relate to climate change
- i) the greenhouse effect (4 marks)
 - ii) the water cycle (4 marks)
- d) Describe the causes of climate change (8 marks)

QUESTION TWO (20 MARKS)

- a) Discuss indicators of climate change in Kenya in the health sector. (10 marks)
- b) Describe impacts of climate change of Kenya's health sector (10 marks)

QUESTION THREE (20 MARKS)

Discuss climate risk and spread of vector-borne diseases in a warming world.

QUESTION FOUR (20 MARKS)

Discuss in detail the pathways by which climate change affects human health.

QUESTION FIVE (20 MARKS)

Discuss the cross-cutting issues for climate change and health.