



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FIRST YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN PUBLIC HEALTH

HPH 107: CLIMATE CHANGE AND HEALTH

DATE: 9/12/2020

TIME: 8:30 – 10:30 AM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Explain the following terms
 - i. Climate change (2 marks)
 - ii. Climate variability (2 marks)
 - iii. Emissions (2 marks)
- b) Using illustrations, describe the following concepts that relate to weather and climate
 - i. the greenhouse effect (5 marks)
 - ii. the water cycle (5 marks)
- c) Differentiate between adaptation and mitigation measures employed to deal with climate change in the health sector. (4 marks)
- d) Describe the causes of climate change. (10 marks)

QUESTION TWO (20 MARKS)

Using a diagram, discuss the pathways by which climate change affects human health.

QUESTION THREE (20 MARKS)

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

QUESTION FOUR (20 MARKS)

Discuss how changes in rainfall and temperature impact human health?

QUESTION FIVE (20 MARKS)

Discuss in detail the key recommendations made by experts in the healthcare sector to climate change policy makers.