



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FIRSTYEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE (PUBLIC HEALTH)

HPH 107: CLIMATE CHANGE AND HEALTH

DATE:

TIME:

INSTRUCTIONS;

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Differentiate the following terms
- i. Weather and Climate (4 marks)
 - ii. Adaptation and mitigation (4 marks)
 - iii. Impacts and emissions (4 marks)
- b) Describe the existing documented evidence of climate change in Kenya (8 marks)
- c) Discuss the natural and anthropogenic causes of climate change (10 marks)

QUESTION TWO (20 MARKS)

Using diagrams, discuss the pathways by which climate change affects human health

QUESTION THREE (20 MARKS)

Discuss how climate change influences the spread of vector-borne diseases around the world

QUESTION FOUR (20 MARKS)

Give a detailed account of how changes in the following impact human health

- a) Rainfall (10 marks)
- b) Temperature (10 marks)

QUESTION FIVE (20 MARKS)

Using illustrations, discuss the following concepts that relate to weather and climate

- a) the greenhouse effect (10 marks)
- b) the water cycle (10 marks)