



MACHAKOS UNIVERSITY

University Examinations For 2020/2021 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FIRST YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (PUBLIC HEALTH)

HPH 107: CLIMATE CHANGE AND HEALTH

DATE: 22/6/2021

TIME: 8.30-10.30 AM

INSTRUCTIONS: Answer question ONE and any other TWO questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Differentiate between
- (i) adaptation and mitigation (4 marks)
 - (ii) weather and climate (4 marks)
 - (iii) climate change and climate variability (4 marks)
- b) Using diagrams, describe the following concepts that relate to weather and climate
- (i) the greenhouse effect (4 marks)
 - (ii) the water cycle (4 marks)
- c) Explain the 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 climate risk associated with spread of vector-borne diseases in a warming world.

QUESTION FOUR (20 MARKS)

- a) Discuss indicators of climate change in Kenya (10 marks)
- b) Discuss impacts of climate change on Kenya's healthcare sector (10 marks)

QUESTION FIVE (20 MARKS)

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