**CHUKA** 



#### UNIVERSITY

#### **UNIVERSITY EXAMINATIONS**

# SECOND YEAR EXAMINATION FOR BACHELOR OF SCIENCE IN PUBLIC HEALTH

PUHE 258 CLIMATE CHANGE AND HEALTH

STREAMS: Y1S1 TIME: 2 HOURS

**DAY/DATE**:.....

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#### **INSTRUCTIONS:**

- 1. Do not write anything on the question paper.
- 2. Mobile phones and any other reference materials are NOT allowed in the examination room.
- 3. The paper has three sections. Answer ALL questions in Sections I and II and ONE question in section III.
- 4. All your answers for Section I (MCQs) should be on one page.
- 5. Number ALL your answers and indicate the order of appearance in the space provided in the cover page of the examination answer booklet.
- 6. Write your answers legibly and use your time wisely

## **SECTION ONE (Answer ALL QUESTIONS)**

- 1. How does climate change (global warming) affect human health?
  - A. By increasing illnesses such as heat stress, cardiovascular disease and kidney disease
  - B. By increasing respiratory illnesses such as asthma and allergies
  - C. By increasing insect borne infections such as dengue fever
  - D. All of the above
- 2. Greenhouse effect refers to:
  - A. Ability of atmosphere to retain water vapor
  - B. Ability of certain atmospheric gases to trap heat and keep the planet relatively warm
  - C. Ability of cloud to scatter electromagnetic radiation
  - D. None of the above
- 3. The primary agenda of the Kyoto protocol is
  - A Regulation of hazardous wastes
  - B Regulate the production of nuclear energy
  - C Control anthropogenic sources of greenhouse gases
  - D None of the above

- 4. Depletion of the ozone layer is damaging to human health. Negative effects include
  - A Skin cancers
  - B Osteoporosis
  - C Dyspepsia
  - D None of the above
- 5. Carbon dioxide is primarily called a greenhouse gas because
  - A Traps heat
  - B Traps light
  - C Traps warm currents
  - D None of the above
- 6. Cosmic rays, such as gamma rays are a source of
  - A Soil Pollution
  - **B** Noise Pollution
  - C Thermal Pollution
  - D Radiation pollution
- 7. What does IPCC stand for?
  - A Intergovernmental Panel on Climate Change
  - B International Panel on Climate Change
  - C Intergovernmental Protocols on Climate Change
  - D International Panel on Climate Conservation
- 8. How food production reduced due to climate change?
  - A Due to application of organic manures
  - B Due to modern technologies
  - C Due to increase in pests
  - D Due to reduction in pollution
- 9. Which one of the following is a result of high exposure of radiation?
  - A Loss of white blood cells
  - B Hair loss
  - C Tooth decay
  - D Leg fracture
- 10. What is the main aim of UNFCCC?
  - A Stabilization of greenhouse gas
  - B Increase of greenhouse gas
  - C Increase of temperature
  - D Stabilization of oxygen

(10 marks)

# **SECTION TWO (Answer ALL QUESTIONS)**

1. Define the following terms:

(5 marks)

- a) Climate change variability
- b) Global warming
- c) Early Warning System
- d) Carbon sink

- e) Emissions
- 2. List the purpose of the following treaties

## (4 marks)

- a) Paris Agreement
- b) Kyoto Protocol
- 3. With examples discuss how climate change has increased the incidences of infectious diseases

## (8 marks)

4. List five stakeholders identified to implement the Kenya National Adaptation Plan 2015-2030.

(5 marks)

5. Explain any six benefits of an Early Warning System.

# (6 marks)

6. Briefly discuss any six human activities contributing to global climate change. (12 marks)

# (40 marks)

# **SECTION THREE (Answer ONLY ONE QUESTION)**

- Over the last several decades the global climate has been changing.
   Discuss the impact climate change has on health.

  (20 marks)
- 2. It is important for the health sector to be involved in climate mitigation activities. Elaborate the role of the health sector in climate change mitigation.

  (20
  marks)