

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF PUBLIC HEALTH

4TH YEAR 1ST SEMESTER 2023/2024 ACADEMIC YEAR

MAIN CAMPUS - REGULAR

COURSE CODE:
COURSE TITLE:
EXAM VENUE:

HCB 1415 CLIMATE CHANGE AND HEALTH STREAM: (BSC PUBLIC HEALTH

TIME: 2 HOURS

DATE:

Instructions:

- 1. Answer ALL questions in Section A and Any TWO questions in Section B
- 2. Candidates are advised not to write on question paper

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3. Candidates must hand in their answer booklets to the invigilator while in the examination room

SECTION A (30 Marks) Answer all questions

- 1. Define the following terms (3 marks).
 - i) Climate
 - ii) Weather
 - iii) Variations
- 2. Describe the greenhouse effects (3 marks).
- Define the terms; Mitigation, Adaptation and Resilience in regards to climate change (3 marks)
- 4. Discuss the sources/reasons for the increase in any named 4 green house gases (4 marks)
- 5. Define a tropical cyclone and the four types of tropical cyclones between a tropical storm, hurricane and cyclone, a typhoon and a tsunami (5 marks)
- 6. Describe the Kyoto protocol (3 marks).
- 7. Describe carbon credits and how they work (3 marks).
- 8. Describe the Paris Agreement (3 marks)
- 9. Describe early warning systems and the type of early warning systems (3 marks)

SECTION B (40 Marks) Answer any 2 questions

- 11. Discuss the impacts of climate change on health with a focus on vector borne diseases (20 marks).
- 12. Discuss the impact of climate change and health in Kenya under the Water, Sanitation and Hygiene and Food Insecurity and undernutrition (20 marks).
- 13. Discuss challenges faced by epidemiologists when studying climate change (20 marks).
- 14. Discuss the DPSEEA framework in studying environment health indicators (20 marks).