



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE PUBLIC
HEALTH / COMMUNITY HEALTH AND DEVELOPMENT
2ND YEAR 1ST SEMESTER 2022/2023 ACADEMIC YEAR
KISUMU CAMPUS

COURSE CODE: HCB 2209

COURSE TITLE: ENVIRONMENTAL HEALTH

EXAM VENUE: STREAM: (BSc. Comm Hlth & Dev)

DATE: EXAM SESSION: DECEMBER 2022

TIME: 2.00 HOURS

Instructions:

- 1. Answer all the questions in Section A and 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A: Answer all questions (30 Marks)

1. Define the terms
 - a. Toxicity
 - b. Critical control point
 - c. Environmental health
2. Explain the concept of dose response in relation to toxicity
3. List the major causes of water pollution globally
4. Name any three greenhouse gases generated by the burning of fossil fuels due to human activity?
5. Explain the factors that affect toxicity
6. What are radioactive materials and give examples
7. what are the implications of radioactive materials to the body
8. Explain the concept of environmental health surveillance
9. List the seven core concepts of environmental health hazards
10. Name toxicants in the environment that affect the lungs/Kidney

SECTION B: Answer any two Questions (20 Marks each)

1. . Explain the concept/Term of Biomarkers? (5Marks)

Explain the various uses of Biomarkers as it related to environmental health hazards
(15marks)

2. State and explain 5 environmental laws in Kenya and their application and implications to the activities of the population
3. Discuss the environmental factors that have great impact on human mortality and morbidity in the recent pasts