



# MACHAKOS UNIVERSITY

University Examinations for 2022/2023 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN PUBLIC HEALTH

HPH 311: ENVIRONMENTAL POLLUTION AND CONTROL

**DATE:**

**TIME:**

---

**INSTRUCTIONS:** Answer Question **one (Compulsory)** and any other **two** questions

## QUESTION ONE (30 MARKS)

- a) Explain the meaning of the following
- i. Environmental pollution (2 marks)
  - ii. Persistent organic pollutants (2 marks)
  - iii. Toxicology (2 marks)
  - iv. Global warming (2 marks)
- b) Using examples, explain any three emerging pollutants in Kenya (6 marks)
- c) Discuss the four drivers of environmental pollution in Kenya (16 marks)

## QUESTION TWO (20 MARKS)

Discuss the current waste management practices in Kenya and their implication to ecological and human health.

## QUESTION THREE (20 MARKS)

Critically evaluate the legal and institutional framework for environmental pollution control in Kenya.

## QUESTION FOUR (20 MARKS)

Heavy metal pollution is one of the major challenges in the modern human society. Discuss.

## QUESTION FIVE (20 MARKS)

Discuss the human health and ecological effects associated with use of pesticides in Kenya. Use examples.