



MACHAKOS UNIVERSITY

University Examinations For 2021/2022 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL SCIENCE

ENS 343: ENVIRONMENTAL POLLUTION AND ECOTOXICOLOGY

DATE:

TIME:

INSTRUCTIONS: Answer Question **ONE** and any other **TWO** Questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Explain the meaning of the following terms
- i. Soil pollution (2 marks)
 - ii. Persistent Organic Pollutants (2 marks)
 - iii. Ecotoxicology (2 marks)
- b) Explain any three emerging pollutants and their effects to the environment. (9 marks)
- c) Discuss the human health risks associated with environmental pollution (15 marks)

QUESTION TWO (20 MARKS)

Using examples, discuss the main sources of soil pollutants in Kenya

QUESTION THREE (20 MARKS)

Using relevant examples, explain how you would carry out water quality assessment for a water body.

QUESTION FOUR (20 MARKS)

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

QUESTION FIVE (20 MARKS)

Environmental degradation is one of the major challenges in the 21st Century. Discuss