



MACHAKOS UNIVERSITY

University Examinations For 2020/2021 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FIRST YEAR SECOND SEMESTER EXAMINATION FOR

MASTER OF ENVIRONMENTAL SCIENCE

ENS 805: ECOTOXICOLOGY AND ENVIRONMENTAL HEALTH

DATE: 16/6/2021

TIME: 8.30-11.30 AM

INSTRUCTIONS:

Answer question *ONE* and any other *THREE* questions

Use appropriate illustrations where necessary

QUESTION ONE (COMPULSORY) (15 MARKS)

Discuss how the major classes of ecological contaminants (ecotoxicants) would impacts living organisms.

QUESTION TWO (15 MARKS)

Discuss the factors that affect toxicant action in organisms.

QUESTION THREE (15 MARKS)

Using appropriate examples, discuss the major classes of ecotoxicants found in the environment.

QUESTION FOUR (15 MARKS)

Imagine you have been tasked with an assignment the risk of a particular chemical in the environment. Describe the steps you would follow in gathering all available information on the toxic effects of a chemical and evaluating it to determine the possible risks associated with exposure.

QUESTION FIVE (15 MARKS)

Discuss the processes that control the movement and transportation of ecotoxicants through the environment.