



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE

HEH 805: ECOTOXICOLOGY

DATE: Tuesday 16th May 2017

TIME: 9.00a.m -12.00p.m

INSTRUCTIONS:

SECTION A: ANSWER ALL QUESTIONS

1. Citing relevant examples, define the following
 - a) Ecotoxicology [2 marks]
 - b) Environmental Pollution [3 marks]
2. Citing pertinent examples, describe the elements of an exposure pathway. Why is it important to understand the exposure of pathway of environmental/occupational chemical hazards. [15 marks]
3. "The dose make the poison." Discuss this statement of use of the dose-response relationship curves. [15 marks]
4. Draw and describe a general model of the fate of hydrophobic xenobiotics in human being/mammals. [15 marks]

SECTION B: ANSWER ANY THREE QUESTIONS (90 marks)

5. Discuss the fundamental factors underlying global environmental pollution. [30marks]
6. Discuss the characteristics of pollutants that undergo biomagnification in the environment. [30 marks]
7. Discuss the linkage between environmental contamination and health with special reference to Minamata and Chernobyl disasters. [30 marks]
8. Using relevant illustrations, discuss the factors that influence the toxicity of xenobiotics. [30 marks]

INVOLVEMENT IN ANY EXAMINATION IRREGULARITY SHALL LEAD TO DISCONTINUATION