



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

**SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (ENVIRONMENTAL HEALTH)**

HEH 403: ENVIRONMENTAL TOXICOLOGY

DATE: TUESDAY 9TH MAY 2017

TIME: 11.00 A.M. - 1.00 P.M.

INSTRUCTIONS:

SECTION A: ANSWER ALL QUESTIONS

1. Describe the roles of environmental toxicologist (5 marks)
2. Citing examples, explain factors underlying global environmental pollution (5 marks)
3. Explain the importance of a dose-response curve in toxicology (5 marks)
4. Citing relevant examples, define the following:
 - a) Additivity (2 marks)
 - b) Synergism (2 marks)
 - c) Antagonism (1 mark)

SECTION B: ANSWER QUESTION 5 AND ANY OTHER TWO

5. Citing relevant examples, discuss the fate of environmental pollutants (20 marks)
6. Discuss the fundamental factors that influence bio-distribution of xenobiotics in the human body (15 marks)
7. Citing pertinent examples, discuss factors that influence the toxicity of a substance. (15 marks)
8. Contemplate of the process of risk assessment of chemicals before they are released into the market for human consumption/use. (15 marks)
9. Discuss methods used in testing the toxicity to chemicals before they are released to the market for human consumption. (15 marks)