JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

PUBLIC HEALTH

4TH YEAR 1ST SEMESTER 2017/2018 ACADEMIC YEAR

KISUMU CAMPUS

COURSE CODE:	**HPD 3413**
COURSE TITLE:	**Environmental toxicology**
EXAM VENUE:	**STREAM: BSc Public**
DATE:	**EXAM SESSION:**

TIME: 2.00 HOURS

Instructions:

1. **Answer all the questions in Section A and 2 questions in Section B.**
2. **Candidates are advised not to write on the question paper.**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A- 30MKS THREE MARKS EACH

1. What is systemic, local and organ target toxicity.

2. List any three biological insecticides.

3. Briefly define the terms toxins, toxicants and toxicology.

4. Briefly discuss the contribution of Paracelsus in toxicology

5. Outline three methods employed in toxicity testing.

6. Mention any three sites of exposure pathways of environmental chemicals to humans.

7. List any three factors that affect concentration and toxicity of chemical to humans.

8. Briefly define the terms synergism, antagonism and potentiation in reference to multiple exposure of toxic substances to humans.

9. What are exo-toxins? Outline any two reasons why some living organisms produce exo-toxins

10. What is acute, sub-chronic and chronic toxicity?

SECTION B -40 MKS -TWENTY MARKS EACH

1. Classify and discuss organic pesticides (20mks)

2. What is toxicokinetic? Describe toxicokinetic processes in humans

3a. Briefly describe public health assessment (10 mrks). 3b. Discuss dose-response relationship of a toxic substance

4. List and define different fields of toxicology.