



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

DIPLOMA IN ENVIRONMENT AND HEALTH
(DEH 12J)

AES 2211: ENVIRONMENTAL TOXICOLOGY

SUPPLEMENTARY/SPECIAL: EXAMINATIONS

SERIES: MARCH 2014

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this paper

- *Answer booklet*

This paper consists of **FIVE** questions.

Answer Question **ONE (compulsory)** and any other **TWO** questions

This paper consists of 3 PRINTED pages

QUESTION ONE

- a) Define the following terms
 - (i) Environmental toxicology (1 mark)
 - (ii) Waste products (1 mark)
 - (iii) Toxins (1 mark)
 - (iv) Exposure (1 mark)
- b) Briefly explain the following
 - (i) Subchronic toxicity (2 marks)
 - (ii) Dosage (2 marks)
- c) State three major toxicants transport media (3 marks)
- d) List three toxicant storage sites in human body. (3 marks)
- e) Outline three routes through which toxicants are absorbed into the human body (3 marks)
- f) Distinguish between environmental toxicology and toxicology (3 marks)
- g) Outline three ways in which exposures are quantified in relation to the media (3 marks)
- h) Distinguish between the following variation limits PPM and PPb (2 marks)
- i) State three characteristics of individual who have been exposed to toxicants. (3 marks)
- j) Briefly explain the importance of Environmental toxicology. (2 marks)

QUESTION TWO

Discuss the hazardous effects of the following classes of pesticides to the community

- i) Insecticides (5 marks)
- ii) Herbicides (5 marks)
- iii) Fungicides (5 marks)

QUESTION THREE

Describe the distribution of toxicants in a human body (15 marks)

QUESTION FOUR

Discuss five factors affecting the distribution of toxicants within the human body (15 marks)

QUESTION FIVE

Discuss different types of toxic responses by living organisms. (15 marks)