UNIVERSITY OF SWAZILAND Faculty of Health Sciences DEGREE IN ENVIRONMENTAL HEALTH SUPPLEMENTARY EXAMINATION PAPER 2007-8

TITLE OF PAPER

Introduction to Environmental Toxicology II

COURSE CODE

EHS 558

DURATION

2 HOURS

MARKS

100

INSTRUCTIONS

READ THE QUESTIONS & INSTRUCTIONS

CAREFULLY

ANSWER ANY FIVE QUESTIONS

: EACH QUESTION CARRIES 20 MARKS.

: WRITE NEATLY & CLEARLY

: NO PAPER SHOULD BE BROUGHT INTO NOR OUT

OF THE EXAMINATION ROOM.

: BEGIN EACH QUESTION ON A SEPARATE SHEET

OF PAPER.

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR.

UNIVERSITY OF SWAZILAND

DEPARTMENT OF ENVIIRONMETAL HEALTH SCIENCE INTRODUCTION TO TOXICOLOGY II – SUPPLEMENTARY

QUESTION 1

- a) Differentiate between neuropathy exanopathy and myelinopathy. (10 Marks)
- b) What are the mode of action of:
 - Botulinum toxic
 - Tetrodotoxin
 - Tetanus toxin

- Black widow spider toxin (15 Marks)

QUESTION 2

Why are children vulnerable to toxicants

(25 Marks)

QUESTION 3

- a) What types of damage can the liver have? (15 Marks)
- b) Discuss the unique vulnerability of the central nervous system.
 (10 marks)

QUESTION 4

- a) What are the two mechanisms of cell death in the kidney? (10 Marks)
- b) How does one test for kidney damage? 15 Marks)

QUESTION 5

- a) Write short notes on:
 - vinychoride
 - asbestos
 - aromatic amines

(15 Marks)

b) Discuss the toxicology of paraquat and in particular explain the mechanism underlying the specific organ damage.

(10 Marks)