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# SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

**ENSC 343: ENVIRONMENT AND HEALTH** 

STREAMS:BSC ENSC Y3S2 TIME: 2 HOURS

DAY/DATE: THURSDAY 08/07/2021 11.30 A.M – 1.30 P.M

#### **INSTRUCTIONS:**

Answer all questions in section A and any two in section B

Do not write anything on the question paper

### **SECTION A (30 MARKS)**

interactions.

- 1. With appropriate examples, differentiate between the following pairs of terms.
  - (a) Teratogens and carcinogens

[3 marks]

(b) Chronic effects and acute effects of toxicants

[2 marks]

2. Identify three parameters used to classify carcinogenic compounds.

[3 marks]

3. With reference to specific metalloids or metals, explain the effects of possible multiple

[4 marks]

- 4. Explain the phases of penetration of a toxicant from the environment to its sites of toxic effect in an organism's system. [6 marks]
- 5. Explain how the constitution of Kenya 2010 has elevated national environmental health.

[6

marks]

6. Briefly describe three possible effects of physical and chemical agents in the toxic kinetic process. [6 marks]

## **SECTION B (40 MARKS)**

7.	Discuss the transport processes through which potentially toxic substances get into	
	organisms.	[20 marks]
8.	Evaluate the action and effects of five classes of chemical hazards.	[20 marks]
9.	Critically examine factors that influence intensity of organismal response to toxicants.	
		[20
	marks]	
	marksj	