



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**Plot 91, Cadastral Zone, National Azikiwe Expressway, Jabi-Abuja**  
**FACULTY OF HEALTH SCIENCES**  
**(Department of Environmental Health Science)**  
**2023\_2 EXAMINATIONS**

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**Course Code: EHS 411**  
**Course Title: ENVIRONMENTAL TOXICOLOGY**  
**Course Unit: 2 Credit Units**  
**Time Allowed: 1 ½ Hours**  
**Total Score: 70 Marks**  
**Instruction: Answer ALL the Questions**

**Question 1**

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|--|----------|
| (a) Classify toxicants under the following:                  | 5 marks  |
| i. Target sites  |          |
| ii. Sources of poison  | 10 marks |
| (b) List the 3 global ways of classifying toxicants          | 3 marks  |
| (c) Classify toxicants based on the public health importance | 9 marks  |

**Question 2**

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|--|----------|
| (a) List 3 mechanisms of drugs interaction and explain any one | 6 marks  |
| (b) Discuss pesticides classification under the following:     | 12 marks |
| i. Primary benefits  |          |
| ii. Secondary benefits   |          |
| (c) What are heavy metals?                                     | 5 marks  |

**Question 3**

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|---|---------|
| (a) Describe the factors that affect the pathophysiology of toxicity in aquatic environment.  | 8 marks |
| (b) Define half-life and state 3 examples of elements with their half-life time               | 8 marks |
| (c) Write short notes each on 3 primary and secondary pollutants produced by human activities | 4 marks |