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**University Examinations 2016/2017**

FOURTH YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY.

**SHC 3403: BIOCHEMICAL TOXICOLOGY**

**DATE: DECEMBER, 2016 TIME: 2 HOURS**

**INSTRUCTIONS: -** *Answer question* ***one*** *and any other* ***two*** *questions*

**QUESTION ONE (30 MARKS)**

1. Explain meaning of the following terms; (9 marks)
2. LD 50
3. Biotransformation
4. Toxin
5. Define three important chemical use classes (3 marks)
6. Outline the steps in the toxicity cascade after exposure to a harmful chemical (6 marks)
7. Describe the routes of toxicant exposure and their impact on health (6 marks)
8. State exposure sources leading to radiation poisoning in humans (5 marks)

**QUESTION TWO (20 MARKS)**

Discuss how toxicology has evolved to ensure proper analysis of toxicants. (20 marks)

**QUESTION THREE (20 MARKS)**

Discuss the toxic effects of metals stating clinical symptoms associated with their action in the body. (20 marks)

**QUESTION FOUR (20 MARKS)**

Describe in details the criteria for classification of a toxicant. (20 marks)

**QUESTION FIVE (20 MARKS)**

Discuss on the various chemical groups of pesticides and their impact on health. (20 marks)