FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MICROBIOLOGY

FIRST SEMESTER EXAMINATION 2013/2014 SESSION

COURSE CODE: MCB513 (3 CREDITS)
COURSE TITLE: GENERAL TOXICOLOGY
CLASS: 500 LEVEL
TIME ALLOWED: 2 hrs. 30 min

INSTRUCTION: Answer five questions in all

1(a) What are the predisposing causes and significance of plant toxins?
1(b). Enumerate the different types of toxins in plants.

2(a) In a tabular form, compare and contrast the different characteristics of bacterial toxins.
2(b). Enumerate the ways in which these toxins can be eliminated (where possible).

3(a). What are food additives?
3(b). What are the health implications on man?

4. Write briefly on the following;
   i. Cadmium
   ii. Enzyme inhibition/activation
   iii. Anthropogenic pollutants

5(a). List four characteristics of an ideal pesticide.
5(b). Discuss the effect of pesticides on beneficial soil microorganisms.

6. How does the persistency of Dichlorodiphenyltrichloroethane (DDT) affect the trophic levels of food chain?

7(a). What are the changes ionizing radiation cause in cells?
7(b). Copy and complete the table below with the appropriate dose and biological effect of radiation on human:

SOURCES	DOSE	BIOLOGICAL EFFECT
Nuclear bomb blast		
X-rays for cancer patients		
X-ray of the intestine		
Natural background radiation		