



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCE
SEPTEMBER, 2020_1 EXAMINATIONS

Course Code: EHS 411

Course Title: ENVIRONMENTAL TOXICOLOGY

Course Units: 2 Credit Units

Time Allowed: 2 Hours

Total Score: 70 marks

Instruction: Answer ALL questions

Question no. 1

- a) What is 'Environmental Pollution'? (5 marks)
- b) State the difference between the following types of pollutants and give at least two (2) examples of each (12 marks)
- c) List the harmful effects of water pollution (5 marks)

Question No. 2

- a. What is Environmental Toxicology? (5 marks)
- b. According to Paracelsus (1493–1541), 'the dose makes the poison', make a detailed discussion of the above maxim using concepts and facts you learned from this course. (5 marks)
- c. List and explain the five divisions of toxicology based on the 'Objective of the Study'. (10 marks)
- d. List some common equipments used in toxicological studies (3 mark)

Question No. 3

- a. Draw a typical Dose-Response curve (5 marks)
- b. and use it to explain the following concepts (8 marks)
 - (i) Threshold level
 - (ii) Lethal dose
 - (iii) Effective dose and
 - (iv) Toxic dose
- c. State the limitation of Lethal dose as a measure of toxicity (4marks)
- d. State four general roles of agents or organizations responsible for management of Environmental Toxicology (8 marks)