



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2021_1 EXAMINATION

COURSE CODE: EMT 308

COURSE TITLE: Environmental Aspects of Pesticides and Other Toxicants Use

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) is compulsory and carries 25 marks, while the other questions carry equal marks (15) each

- 1a) Highlight the fate and behaviour of pesticides in soils (6 mark)
 - b) Discuss the processes of pesticides transfer in regards to movement and absorption of pesticides in soil (5 marks)
 - c) Highlight the pesticides properties affecting the mobility of pesticides in soil (10 marks)
 - d) Highlight the management practices affecting the mobility of pesticides in soils. (4marks)
- 2) Evaluate the routes of exposure to pesticides (15 marks).
- 3a) Explain the safety guidelines in the storage of pesticides in regards to safety measures (7marks)
 - 3b) State the factors that aggravated health hazards from pesticides use in Nigeria (8 marks)
- 4a) Highlight on recordkeeping in respect of detection/ determination of toxic waste in the environment (4marks)
 - 4b) Elaborate on the disposal of unwanted pesticide concentrates and ready-to-use formulas/ waste in regards to environmental health (11marks)
- 5a) Expatiate on the meaning of dose terms as applicable to residues in food and human body (4 marks).
 - 5b) Highlight the neuronal damage that occur due to cholinergic neuronal excitotoxicity and dysfunction as a toxic effects of pesticide residues on human health (5 marks).