



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2020_2 EXAMINATIONS

COURSE CODE: EMT308

COURSE TITLE: Environmental Aspects of Pesticides and other Toxicants Usage

CREDIT: 2Units

TIME ALLOWED: 2 Hours

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

- 1a) Outline four classes of pesticides and their corresponding uses (4 marks)
- 1b) Discuss the 'original words' in a pesticides label that indicates products relative toxicity to humans (6marks)
- 1c) Identify the types of degradation that take place in the soil (6 marks)
- 1d) Define the term pesticides residue (1mark)
- 1e) Highlight four principal steps in the waste determination process (8marks)
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- 3a) Discuss five precautionary measures that should be taken in handling of pesticides. (7 1/2 marks)
- 3b) List the factors that affect pesticide mobility in soil. (4marks)
- 3c) What is pesticide half-life. (3 1/2 marks)
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- 4a) Explain five factors affecting the mobility of trace elements in soils. (5marks)
- 4b) Outline five herbicide adsorption mechanisms in soils. (5marks)
- 4c) List any five indications of poisoning. (5marks)
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- 5a) Define the term fumigants. (3marks)
- 5b) Enumerate six types of fumigants. (6marks)
- 5c) Explain the methods of fumigants application. (6marks)
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- 6a) Outline microbial remediation processes and applications. (7marks)
- 6b) Explain briefly public concerns about pesticide residues. (4marks)
- 6c) What is sustainable and integrated pest management. (4marks)