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National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science 2020 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) What are pesticides? (6 marks)
- 1b) List and explain the three "signal words" that indicate the relative toxicity of pesticides to humans. (6 marks)
- 1c) List the types of enzymes used in enzymatic conversions and the different non-enzymatic pesticide conversion processes in the environment. (7 marks)
- 1d) List six (6) pesticides that the FOA and WHO have recommended residue limits when used for the protection of grains. (6 marks)
- 2a) The fate processes of pesticides fall into three major types when released in to the soil. List them. (3 marks)
- 2b) Discuss any one (1) of the major fate processes of pesticides in soil, as in '2a' above. (12 marks)
- 3a) Outline the factors that control the mobility of pesticides in the soil environment. (4marks)
- 3b) Outline soil properties that exert significant influences on the fate and transport of pesticides in croplands (4marks)
- 3c) Discuss the management practices that affect the mobility of pesticides in soils (7marks)
- 4a) Outline the factors that affect the mobility of trace elements in soils (6 marks)
- 4b) With the aid of a table, summarize the effects of foil factors on trace metal mobility and / or bioavailability. (9 marks)
- 5a) Briefly discuss pesticide residues in cereals and pulses. (8 marks)
- 5b) What is the result of the study in Nigeria on organochlorine pesticide residues in cereal grains? (7 marks)