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

**COURSE CODE: EMT304** 

**COURSE TITLE: Hazardous Substance Management** 

**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.

<ul><li>1a). Describe bioreactor treatment of hazardous substances</li><li>b). Describe in detail deep well waste disposal system.</li><li>c). Discuss the natural routes or sources of hazardous substances into the environ</li></ul>	(5 marks) (5 marks)
d). State five advantages of fluidized bed incineration system.	(10 marks) (5 marks)
<ul><li>2a). What is ultimate disposal in terms of hazardous waste?</li><li>b). List two factors that influence ultimate disposal.</li><li>c). What do you understand as multiple hearth incineration system?</li><li>d). Describe in detail fluidized bed incineration system.</li></ul>	(3 marks) (2 marks) (5 marks) (5 marks)
<ul><li>3a). Describe composting in terms of bio-treatment of hazardous substances.</li><li>b). Define controlled or an engineered landfill.</li><li>c). What is eutrophication?</li></ul>	(10 marks) (3 marks) (2 marks)
<ul><li>4a). Discuss in detail acclimation procedure</li><li>b). Define hazardous substance.</li></ul>	(12 marks) (3 marks)
<ul><li>5a). List three modifications that activated sludge has undergone</li><li>b). Describe each of these modifications.</li></ul>	(3 marks) (12 marks)