

National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja **Faculty of Science** 2023 2 EXAMINATIONS_

COURSE CODE: ESM 444

COURSE TITLE: Industrial Waste and Industrial Water Treatment.

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question

number one (1) carries 25 marks, while the other questions carry (15) marks each.

Explain the primary treatment of industrial wastewaters. (13marks) (la)

- Explain in detail the Biological treatment of industrial wastewaters. (12marks) (b)
- State the aim of waste management practice. (2marks) (2a)
- State the various ways of reducing wastes. (13marks) (b)
- Describe a boiler. (6marks) (3a)
- Explain the types of boilers. (9marks) (b)
- What is industrial waste? (5marks) (4a)
- State ten sources of industrial waste. (5marks) (b)
- Enumerate ten common industrial wastes. (5marks) (c)
- Discuss landfill method of disposing wastes. (15marks) (5)