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NATIONAL OPEN UNIVERSITY OF NIGERIA

University Village, Plot 91 Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi - Abuja.

FACULTY OF SCIENCES ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT JANUARY/FEBRUARY 2018 EXAMINATIONS

COURSE CODE: ESM 444 TIME ALLOWED: 2HOURS CREDIT UNIT: 2

COURSE TITLE: INDUSTRIAL WASTES AND INDUSTRIAL WATER TREATMENT

Instruction: Attempt question number one (1) and any other three (3).

- 1. With relevant examles, justify the view that the handling of industrial wastes is a major problem all over the world. (25marks)
- 2a. Briefly discuss the types of recirculation of water system (9marks)
- 2b. What are the advantages inherent in the use of closed recirculation water system (6marks)
- 3a. Define the term industrial waste water (5marks)
- 3b. Explain the five ways of treating industrial waste water (10marks)
- 4. Discuss the biochemical processes of treating industrial wastewater. (15marks)
- 5. Explain the concept of waste management and of the different techniques of waste disposal (15marks)