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National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science JUNE, 2020_1 EXAMINATION

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.

- 1a) What is recycling? (6mks)
- (b) Explain in detail the recycling of wastes. (14mks)
- (c) Enumerate the wastes that are commonly recycled. (5mks)
- (2a) Explain the types of Recirculation Water System. (9mks)
- (b) Outline the applications of closed recirculation water system. (6mks)
- (3a) What is waste management? (8mks)
- (b) Explain the integrated waste management method. (3mks)
- (c) Explain the incineration method of waste management. (4mks)
- (4) Discuss the problems of boilers. (15mks)
- (5a) What is Industrial wastewaters? (2mks)
- (b) Enumerate the sources of industrial wastewaters. (5mks)
- (c) State the forms of contaminants in wastewaters. (5mks)
- (d) Enumerate the wastes produced in industries. (3mks)