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National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Sciences SEPTEMBER, 2020_1 EXAMINATIONS

COURSE CODE: ESM322

COURSE TITLE: Water and Waste Water Management

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) Define the following
 - i. Freshwater (1 mark)
 - ii. On-site disposal and wastewater treatment system (1 mark)
 - iii. Portable water (3 marks)
 - iv. Waste water (2 marks)
- 1b) Mention six (6) sources of freshwater (3marks)
- 1c) Discuss the potential risk of human activities on freshwater. (5 marks)
- 1d) In a tabular form, outline the different levels and objectives of water treatment. (10marks)

QUESTION 2 (15 marks)

- 2a) How does temperature affect chemical and physical properties of a water body? (3 marks)
- 2b) Discuss the effects of contaminated water on man. (12marks)

QUESTION 3 (15 marks)

3) Highlight the causes and types of freshwater pollution. (15marks)

Question 4 (15 marks)

- 4a) List any six (6) of the processes that leads to water pollution. (3 marks)
- 4b). Discuss the effects caused by any 3 of the processes that leads to water pollution. (12 marks)

Question 5 (15 marks)

- 5a) Highlight the objectives of water treatment. (5 marks)
- 5b) Write short notes on water treatment processes. (10 marks)