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Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi- Abuja.
Faculty of Health Sciences
Department of Environmental Health Science

nent of Environmental Health Scien 2021 2 EXAMINATION...

Course Code: EHS 409

Course Title: SEWAGE AND WASTE WATER TREATMENT

Course Unit: 2 Credit Units. Time Allowed: 1 ½ Hours. Total Score: 70 Marks.

**Instruction: Answer All Questions.** 

Question 1.

Of all the analytical methods of assessing waste water quality, the BOD<sub>5</sub> and TSS are most popular.

- a. List what BOD<sub>5</sub> measures; the temperature involved; the time duration; and the unit of expression (10marks).
- b. List what TSS measures; the temperature involved; the medium used; and the unit of expression (10marks).

## Question 2.

Technology is advancing in all fields including Environmental Health.

- (a). Briefly explain four (4) advanced wastewater treatment methods you know. (10marks).
- c). Highlight the major principles in the Activated Carbon Filtration Process. (20 marks).

## Question 3

- (a) List the processes involved in a wastewater treatment plant from the inlet to the outlet of the final effluent. (5marks)
- (b) State four (4) advantages of grit removal process in wastewater treatment. (10marks)
- (c) At various stages in wastewater treatment process, sludge will result. This sludge needs to be treated also before disposal. Mention at least 5 sludge treatment processes. (5marks).