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NATIONAL OPEN UNIVERSITY OF NIGERIA Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi- Abuja. Faculty of Health Sciences Department of Environmental Health Science

2021_1 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.

- (a) According to West Africa Health Examinations Board (WAHEB) (1991), sewage is the collective name for the liquid waste of a community. Identity and list at least five sources of sewage (5 marks).
- (b) Our concern to treat waste water is because of its negative impact on the environment. What are these negative impacts? (5 marks).
- (c). What is the first process in a conventional waste water treatment plant? (1mark). Mention two categories of that process. (4 marks).
- (d). Give two objectives for adopting this process in question 1c. (5 marks).

Question 2.

Assuming that you enter the premises of a waste water treatment plant and you met no one to guide you, but the manifest of the treatment plant is given to you.

- a. How will you identify the sedimentation tank on ground? (5 marks).
- b. What are the three factors that affect rate of sedimentation? (10 marks).
- c. Mention the zones inside a sedimentation tank (5 marks).
- d. Why are rectangular sedimentation tanks very popular? (10 marks).

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Question 3

- (a) State four (4) advantages of Separate Sewerage systems (10 marks).
- (b) Mention at least four (4) sources of liquid wastes that can be seen in the floor drain of a standard motor garage. (10 marks).