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NATIONAL OPEN UNIVERSITY OF NIGERIA Plot 91, Cadastral Zone, National Azikiwe Expressway, Jabi-Abuja FACULTY OF HEALTH SCIENCES (Department of Environmental Health Science) APRIL 2021 1 EXAMINATIONS

Course Code: EHS 403

Course Title: Environmental Health Laboratory

Course Unit: 3

Time Allowed: 1 ½ Hours Total Score: 70 Marks

Instruction: Answer ALL the Questions

- Q1 a) What is Science Laboratory? (5 marks)
- b) What are laboratory techniques (5 marks)
- c) Why is Environmental Laboratory important in Public Health? (10 marks)
- Q2a) Distinguish between Laboratory Notebook and Diary. (5marks)
- b) What are the Laboratory Design Considerations? (10 marks)
- Q3a) Discuss the general goals for setting laboratory under the following
- i. Safety (5 marks)
- ii. Comfort (6 marks)
- iii. Energy efficiency (4 marks)
 - 3b) What is the molarity of a solution made by dissolving 2.355 g of sulfuric acid in water and diluting to a final volume of 50.0 mL? (5 marks)
 - Q4 a) What is instrumentation (3 marks)
 - b) What are the requirements for choosing instrumentation for laboratory analysis (8 marks)
 - c) What is a Cryostat? (4 marks)