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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) 2023_1 POP EXAMINATION

COURSE CODE: EHS 403 COURSE TITLE: ENVIRONMENTAL HEALTH LABORATORY COURSE UNIT: 3 TIME ALLOWED: 2 HOURS TOTAL SCORE: 70 MARKS INSTRUCTION: ANSWER ALL THE QUESTIONS

1a) List 3 acts that support the establishment of environmental laboratories (3 marks)

- b. Write on the Functions of Environmental Laboratories (**5 marks**)
- c. What are the key things that a complete laboratory record book must contain? (6 marks)

2a)What are the building requirements for constructing a laboratory? (4 marks)

b. List and explain the different ventilation control types? (18 marks)

c. How can Environmental Laboratory soundness be achieved? (10 marks)

3a) Define the following:
Stock standard solution
Standard solution (5 marks)
Molar solution
b. 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)
c. Mention the different hazard classes of chemicals. (3 marks)

4a.What is a Standard Operating Procedure (5 marks)b. List and explain the 2 levels of Analytical Quality Control programmes and their importance (6 marks)