



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, National Azikiwe Expressway, Jabi-Abuja
FACULTY OF HEALTH SCIENCES
(Department of Environmental Health Science)
2023_2 EXAMINATIONS_

Course Code: EHS 403

Course Title: Environmental Health Planning

Course Unit: 3 Credit Units

Time Allowed: 2 Hours

Total Score: 70 Marks

Instruction: Answer ALL the Questions

Q1 a) What is laboratory equipment? (5 marks)

b) State the five functions of Environmental Laboratories (10 marks)

c) List the legal provisions for the establishment of Environmental Laboratories? (3 marks)

Q 2 a) Enumerate the main headings which should be included on a lab book (12 marks)

b) Enumerate the general requirements for laboratory (6 marks)

Q3a) What are the precautions that are highly recommended during preparations of reagents (11 marks)

3b) If hydrochloric acid is sold commercially as a 12.0 M solution. How many moles of HCl are in 300.0 mL of 12.0 M solution? (5 marks)

c) c) What do you understand by the term cryostat? (4 marks)

Q4a) what are fumes hoods? (4 marks)

b) Discuss the techniques of Polymerase Chain Reaction (PCR) and its use in the Environmental Health Laboratory. (10 marks)