



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA**  
**FACULTY OF HEALTH SCIENCES**  
**DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCE**  
**2024\_2 EXAMINATION**

**COURSE CODE: EHS 403**

**COURSE TITLE: ENVIRONMENTAL HEALTH LABORATORY**

**COURSE UNIT: 3 CREDIT UNITS**

**TIME ALLOWED: 2 HOURS**

**TOTAL SCORE: 70 MARKS**

**INSTRUCTION: ANSWER ALL THE QUESTIONS**

- 1(a). Highlight any ten (10) best practices required in the accurate keeping of laboratory records **10 marks**
- b. Explain the different types of instrumentation for environmental samples analysis **10 marks**
2. a. With relevant examples describe the different sections that must be put into consideration When designing environmental laboratory building **10 marks**
- b. Outline five (5) essential facilities that must be put in place to safeguard the lives of laboratory users **5 marks**
- c. What are the components of sound Measuring system? **5 marks**
3. a. Mention five (5) functions of Environmental Laboratories **5 marks**
- b. Elucidate the different Levels of Analytical Quality Control Programme **10 marks**
4. Discuss cryostat under the following headings
  - a. Types **8 marks**
  - b. Applications **7 marks**