



**NATIONAL OPEN UNIVERSITY OF NIGERIA™**

**National Open University of Nigeria**

**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja**

**Faculty of Health Sciences**

**2020\_2 EXAMINATION**

**Course Code: EHS301**

**Course Title: Basic Instrumentation and Use**

**Course Units: 2 Credit Units**

**Time Allowed: 2 Hours**

**Total Score: 70 Marks**

**INSTRUCTION: Answer ALL the Questions**

1a. Outline the common types of air sampling procedures with the application of an air sensor. **(10 Marks)**

1b. Define the term, a Sounding Balloon as a scientific research equipment. **(5Marks)**

1c. Comment briefly on the functionality of a Sounding Balloon. **(5Marks)**

2a. List five (5) important tools that can be used in Basic Instrumentation and Use **(5 marks)**

2b. Explain briefly the tools in (2a) above **(20 marks)**

3a. Itemize the major safety rules in a Standard Scientific Laboratory **(5 marks)**

3b. To ensure proper equipment handling in any modern laboratory, Comment briefly the precautionary measures to be employed. **(6 marks)**

3c. In research laboratories, explain in detail the common hazards that is related to scientific equipment usages. **(4 marks)**

3d. Comment on the Precautionary measures to be undertaken to ensure validity and reliability of results of an experiment. **(10 marks)**