

NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Sciences 2024_2 EXAMINATION_

Course Code: ESM 341

Course Title: Introduction to Instrumentation Measurements and Field Methods in

Environmental Science Course Unit: 2 Credit Units Time Allowed: 2¹/₂ Hours Total Score: 70 Marks

Instructions: Answer question ONE and any other TWO questions

1. a. Describe sampling.

- b. Why do we carry out sampling in research?
- 2. Describe the use of litmus paper in measuring pH (water acidity).
- 3. Describe the instruments that could be used for integrated air sampling.
- 4. Discuss the implications of cleaning old bottles for re-use in sample collection for laboratory analysis.
 - 5. Describe the function of Atomic Absorption Spectrophotometer (AAS).