



NATIONAL OPEN UNIVERSITY OF NIGERIA

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

Faculty of Sciences

2024 1 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. What is remote sensing?
 - b. Outline and explain the process of data acquisition in remote sensing

2. Write short notes on the following:
 - i. Stratified sampling
 - ii. Stratified systematic sampling
 - iii. Purposive sampling
 - iv. Convenience sampling

3. Describe the following:
 - i. Sound level meter
 - ii. Noise dosimeter

4. Explain the importance of instrumentation in environmental fieldwork.

5. Write explanatory notes on any two (2) of the following meteorological variables:
 - i. Wind
 - ii. Temperature
 - iii. Precipitation