

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 samplingiv. Convenience sampling
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- Describe the following:
 Sound level meter
- ii. Noise dosimeter
 - Explain the importance of instrumentation in environmental fieldwork.
 - Write explanatory notes on any two (2) of the following meteorological variables:
 Wind
 - ii. Temperature
 - iii. Precipitation