



NATIONAL OPEN UNIVERSITY OF NIGERIA

FACULTY OF SCIENCES

DEPARTMENT OF ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT

Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja

POP EXAMINATION 2022_2

COURSE CODE: ESM 422

COURSE TITLE: Resource Evaluation

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

SET B

Instruction: Attempt question number ONE (1) and any other TWO (2) questions. Question number one (1) carries 30 marks, while the other questions carry (20) marks each.

- QUESTION 1**
- Mention any two igneous processes
 - Explain the role biological processes in landform development
 - List the techniques of Quantitative Geomorphology
 - Explain the term Geomorphometry
 - Enumerate the implementation steps in Geomorphometry
 - Explain the term terrain

- QUESTION 2**
- Explain the application of digital elevation model (DEM) in Geomorphometric analysis
 - Explain seismic refraction
 - Mention any two types of refraction method

- QUESTION 3**
- Explain the environmental impact of refraction seismic survey
 - State the advantage of refraction seismic survey
 - State the disadvantages of refraction seismic survey

- QUESTION 4** Write explanatory note the following
- DC Resistivity
 - Self Potential (SP)
 - Electromagnetic (EM)

- QUESTION 5**
- Define solid mechanics
 - Explain landscape evolution model

c. Explain the advantages of Seismic Techniques