



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2023_2 EXAMINATIONS_

COURSE CODE: ESM 422

COURSE TITLE: Resource Evaluation.

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) carries 25 marks, while the other questions carry (15) marks each.

- 1a) Highlight five weaknesses of market price approach of resource evaluation. (5 marks)
- 1b) Describe Eolian processes. (5 marks)
- 1c) Enumerate on the steps that comprise a generic cost-benefit analysis (5 marks)
- 1d) State the principles of cost benefit analysis. (10marks)

- 2a) Give a vivid account of tectonic effects on geomorphology. (6marks)
- 2b) Explain how biology can influence geomorphic processes (9 marks)

- 3a) Explain quantitative geomorphology (7marks)
- 3b) Mention five methods to the income approach of resource evaluation. (5 marks)
- 3c) Identify three sections of a typical contingent valuation method (3 marks)

- 4a) State Snell's law and its applications (3 marks)
- 4b) Explain how P-wave refraction evaluates compression wave (7marks)
- 4c) Enumerate five applications of reflection seismology (5 marks)

- 5a) What do you understand by the word geomorphometry? (5 marks)
- 5b) State five steps of implementation commonly used in geomorphometry (5 marks)
- 5c) State five disadvantages of refraction seismic observations (5 marks)