



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
SEPTEMBER 2020_1 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) What is the ultimate goal of resource evaluation? **(2marks)**
- 1b) What do you understand by soil mechanics? **(9marks)**
- 1c) Identify seven geomorphological processes. **(7 marks)**
- 1d) Discuss the valuing of mineral resource stocks and changes in stocks using net present value approach. **(7 marks)**

- 2a) Discuss resource evaluation in line with net price method. **(8marks)**
- 2b) Mention two reasons why the assessment of natural resource base is fundamental to any development planning and project formulation effort **(2marks)**
- 2c) State five advantages of market price approach of resource evaluation. **(5 marks)**

- 3a) Explain the *El Serafy* method. **(9marks)**
- 3b) State five guidelines in the application of contingent valuation method **(6marks)**

- 4a) State five of the conditions required in using contingent valuation method. **(5 marks)**
- 4b) Explain cost benefit analysis. **(5 marks)**
- 4c) State five applications of cost benefit analysis. **(5 marks)**

- 5a) Explain what you understand by the word geomorphology **(4marks)**
- 5b) Discuss contingent valuation method **(11marks)**