

## National Open University of Nigeria Plot 91, Cadastral Zone, NnamdiAzikiwe Expressway, Jabi - Abuja **Faculty of Science** 2020\_2 EXAMINATIONS

**COURSE CODE: ESM422 COURSE TITLE: Resource Evaluation CREDIT:** 2 Units TIME ALLOWED: 2 Hours

5c) Explain the scope of quantitative geomorphology

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.

<ul><li>1a) Expatiate on the evolution of fluid dynamics as a discipline</li><li>1b) Discuss the relevance Electrical and Electromagnetic geophysical techniques in evaluation</li></ul>	( <b>19marks</b> ) n resource ( <b>6marks</b> )
<ul><li>2a) Enumerate on the concept as postulated in the landscape evolution model</li><li>2b) How is solid mechanic relevant in resource evaluation?</li></ul>	(11marks) (4marks)
<ul><li>3a) Define the concept of impedance</li><li>3b) What is Induced Polarization (IP)</li></ul>	(8marks) (7marks)
<ul><li>4a)Explain the workings of seismometers.</li><li>4b) Describe the process for the phenomenon known as mode conversion for incidence</li></ul>	( <b>7marks</b> ) a non-normal ( <b>8marks</b> )
<ul><li>5a) Highlight the advantages that makes the reflection seismic useful in resource e</li><li>5b) Highlight the disadvantages of seismic refraction</li></ul>	valuation ( <b>5marks</b> ) ( <b>5marks</b> )

(5marks)