



**NATIONAL OPEN UNIVERSITY OF NIGERIA**

14/16, Ahmadu Bello Way, Victoria Island

**SCHOOL OF SCIENCE AND TECHNOLOGY**

**October, 2013 Examination**

TIME ALLOWED: - 2HRS

Course Credit Unit: 2

COURSE CODE: - ESM422

COURSE TITLE: - RESOURCES EVALUATION

INSTRUCTION: - ANSWER ANY FOUR (4) QUESTIONS

Q1. Write an essay on resources evaluation. (25 marks)

Q2. Define geomorphology and explain at least four (4) geomorphological processes. (25 marks)

Q3. Explain seismic techniques and state the different seismic techniques you know. (25 marks)

Q4. Explain briefly the following terms: (25 marks)

(i). Induced polarization (IP)

(ii). Self-potential (SP)

(iii). Electromagnetic (EM)

(iv). Magneto telluric (MT)

(v). DC resistivity

Q5. Explain clearly what is meant by solid mechanics in resources evaluation. (25 marks)

Q6. Give at least five (5) importance of fluid dynamics in the study of resources evaluation. (25 marks)